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OPTICAL DYNAMICS EXPERIMENT  
(ODEX) DATA REPORT  
R/V ACANIA EXPEDITION  
10 OCTOBER-17 NOVEMBER 1982

Vol 2: PARTICLE SIZE  
DISTRIBUTIONS; and  
Vol 6: SCALAR SPECTRAL-  
RADIOMETER DATA

by

Hasong Pak, David W. Menzies, and  
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Office of Naval Research  
N00014-84-C0218  
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Corvallis, Oregon 97331

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OPTICAL DYNAMICS EXPERIMENT (ODEX) DATA REPORT  
R/V ACANIA EXPEDITION OF 10 OCT thru 17 NOV 1982

VOLUME 2: PARTICLE SIZE DISTRIBUTIONS

VOLUME 6: SCALAR SPECTRAL-RADIOMETER DATA

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## INTRODUCTION:

The Optical Dynamics EXperiment (ODEX) was an interdisciplinary experiment supported by the Office of Naval Research to study the relation of physical forcing, biological processes, and the structure of optical parameters in the open ocean. The first major field experiment (ODEX 3) took place during October and November 1982. The cruise track of the R.V. Acania, shown in fig. 1 and 2, included densely spaced stations near the California coast, in the transition between the California Current and the NE Pacific Central Gyre, as well as 18 days of observations in the ODEX site surrounding 33 N - 142 W. Other vessels which participated in the study were R/P Flip and its tow vessel R/V VIKING, and a simultaneous station (Sta 77) with the R/V de Steiguer as it passed through the ODEX area.

This data report presents the data collected with the spectral radiometer package, and the particle size analysis of discrete water samples taken from CTD casts by the Oregon State University Optical Oceanography Group. The reader is referred to the first volume of the ODEX 3 data reports for a much more extensive introduction and over-view of the scientific work performed (Data from the Optical Dynamics Experiment (ODEX) Vol. 1: CTD and Optics Profiles, Stockel, Mueller, Pak, and Menzies, 1986). A list of other projected data reports from the ODEX 3 cruise are included therein.

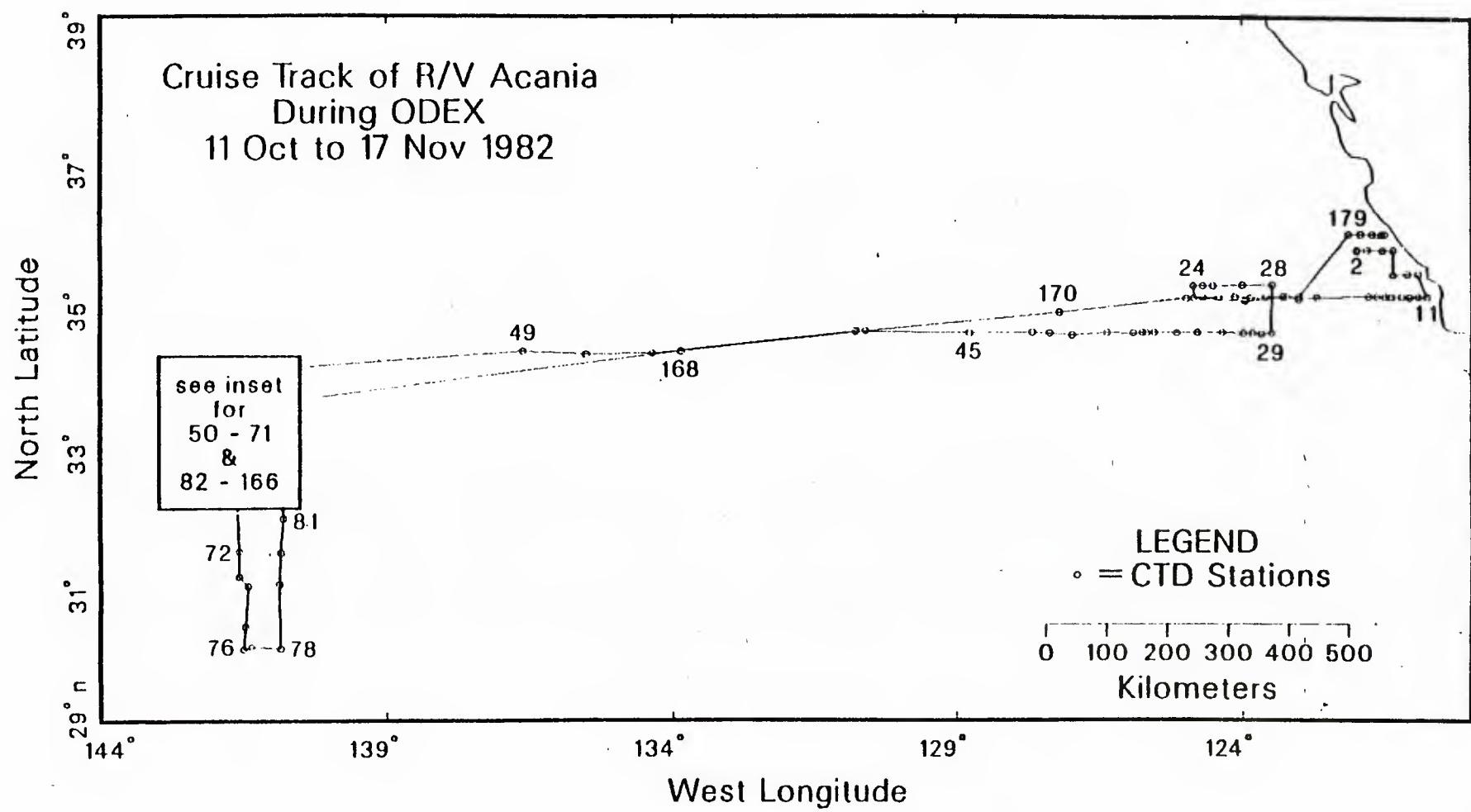


Figure 1

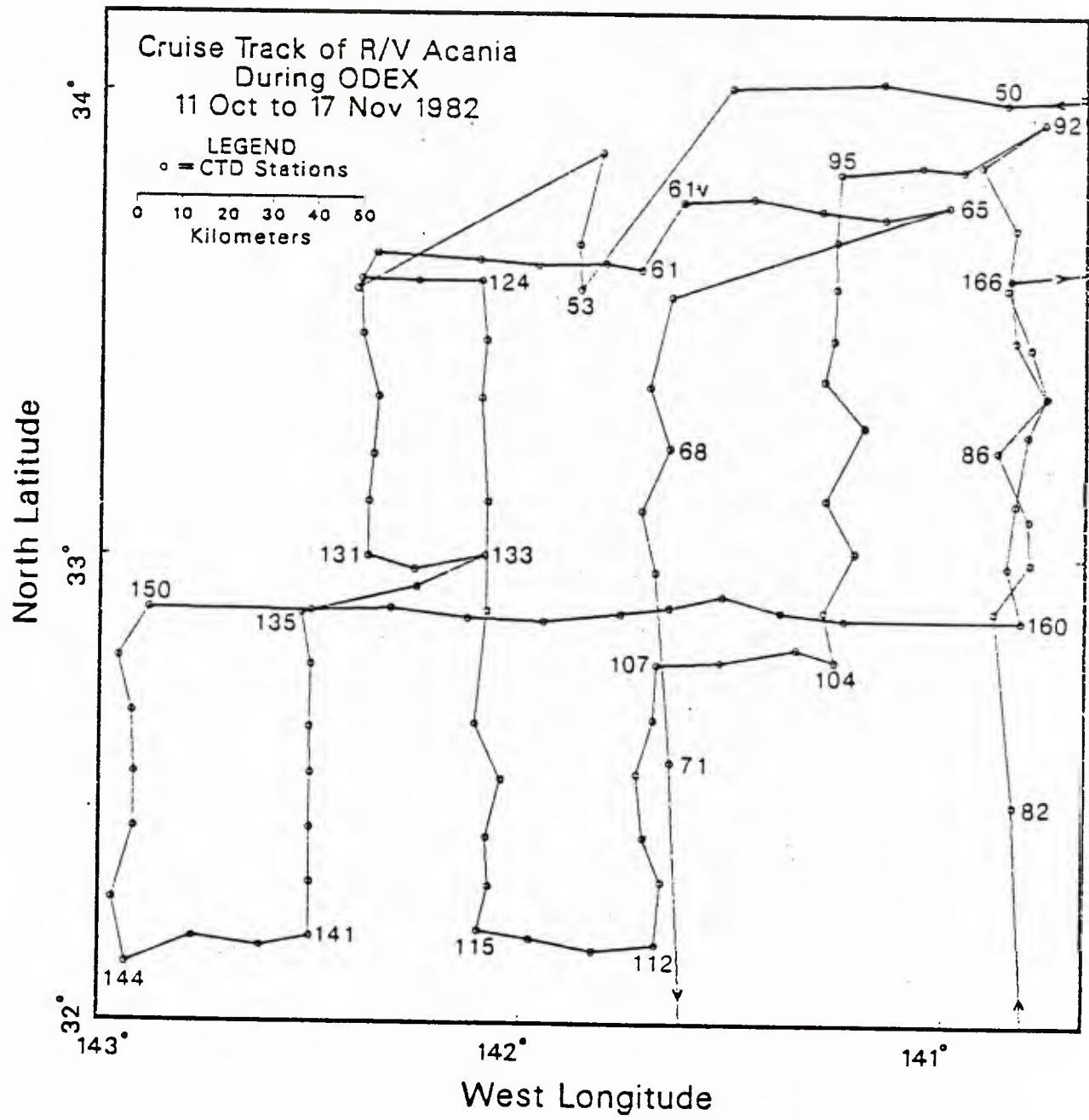


Figure 2

## DESCRIPTION OF THE INSTRUMENT PACKAGE:

The Oregon State University K-Meter instrument package consists of a Biospherical Instruments, Inc. Spectroradiometer and the following additional sensors; Seabird Electronics, Inc. temperature and conductivity probes, and a 25 cm beam transmissometer (built by the O S U Optical Oceanography group). The spectro-radiometer has 12 narrow-band filtered photo-detectors spanning the visible light spectrum. A microprocessor in the instrument controls an A/D converter which measures each parameter, averages scans if desired, subtracts background, formats the data string, and sends the results up the single-conductor electromechanical cable to the deck unit.

An opal glass spherical collector has been added to the spectroradiometer so that scalar irradiance is measured rather than vector irradiance as measured by the cosine-collector supplied with the instrument. The instrument frame, which supports the components of the underwater package, is wrapped with a black plastic shroud to block light from below a horizontal plane from entering the spherical collector. Thus the collector is sensitive only to light from the upper hemisphere of the total light field, but with a uniform sensitivity over the entire hemisphere.

The transmissometer measures the attenuation of a collimated beam of monochromatic light at 665 nm. It is calibrated to give  $c(665) = .364/M$  for particle free water. It contains temperature compensation circuitry to correct for the signal drifts caused by the large range of temperatures encountered during the cruise.

The Seabird temperature and conductivity probes have been frequently calibrated at OSU, and their values were compared to the primary CTD casts taken on the same stations. Although the accuracy of the sensors was satisfactory, the computed salinity structure exhibits some severe spiking particularly where the temperature gradient was large. Because the hydrographic data obtained by the OSU-K meter package was redundant to that collected by the primary CTD system, it was decided to not invest the time and effort needed to despike the salinity and density data obtained by this instrument.

## DATA AQUISITION AND REDUCTION:

An Apple II computer system interfaced to the deck unit ran a complex data aquisition program which sorted each scan into 0.5 M depth bins, displayed the current conditions on the monitor, and produced a real-time plot of any three parameters versus depth. At the end of each cast, the contents of the depth bins were stored onto floppy disk. Additional programs allow listings and plots of the depth bin averaged data and to compute diffuse attenuation coefficients at each wavelength.

Because of the high percentage of cloud cover during this time of year, the irradiance casts were not always taken at local noon or even in bright sunlight. There were many casts taken under broken clouds or during heavy overcast. The spectral radiometer profiles obtained on this cruise demonstrated the importance of measuring the changes in surface irradiance synchronous to the underwater unit. A deck irradiance sensor was not available for this cruise, but was integrated into the data aquisition package for all later cruises. As described in the next paragraph, the data reduction programs which were ultimately developed for smoothing and editing the spectral irradiance data make use of the surface irradiance sensor data. Therefore, in processing the data of this cruise, an artificial and constant value of surface irradiance was assumed and data reduction proceeded as with later cruises. We were not able to obtain diffuse attenuation results for any of the ODEX 3 casts taken in variable surface light conditions.

The observed underwater light profiles represent penetration of sunlight which is affected by changes in incident radiation, losses across the air-sea interface, and the water column attenuation. Our objective is to determine the latter isolated from the other effects. To eliminate the effect of the changing incident radiation, the underwater irradiance data is normalized by the deck irradiance (or assumed irradiance in this case). When normalized in this manner, we still found erratic profiles presumably due to near-surface effects such as; ship shadow and reflections, sea surface wave focusing, and tipping of the underwater package. The remaining errors are complex since they have several possible sources. Therefore we chose to correct them together by editing and smoothing the profiles. Editing is a subjective process which if applied to the irradiances separately for each wavelength could lead to spectral distortion. However, the known sources of error should affect all the irradiances proportionately. Thus we can avoid spectrally biasing the results by editing and smoothing the irradiances at only one wavelength and then applying the same proportional corrections to the irradiances at the other wavelengths. We picked 488 nm since light of that wavelength is detectable to the greatest depths. In this way we can smooth all channels simultaneously and obtain k profiles from the smoothed data. Inspection of the results indicates that in most cases this approach worked satisfactorily.

In order to obtain accurate estimates of diffuse attenuation at low light levels, it is necessary to offset adjust each spectral profile by the sensor voltage at total darkness. Otherwise plots of log-irradiance with depth will appear curvilinear, representing not

only the log of the light signal, but also the log of a constant offset. The diffuse attenuation coefficient (being the slope of this distribution) would therefore be in error by an increasing amount as light decreases. The dark current output of the photo-diodes used in the irradiance meter changes with temperature and ageing. Fortunately, the photo-diode array is sufficiently insulated from the water column so that significant detector thermal changes do not occur during the half-hour period required to take a cast. On the other hand, the conditions on the deck between casts can significantly alter the array temperature and resultant dark current. If the light level falls below the level of detection in a given spectral channel, it is possible to correct the lighted part of the cast by a linear offset equal to the average dark potential. If, however, there is still significant signal at the deepest point of a cast, then that wavelength must be corrected more arbitrarily using the shape of the  $\log E(\lambda)$  curve or other casts which reached darkness at that wavelength. This step of zero adjustment is the most critical step in extending good estimates of diffuse attenuation to the limit of detectability in each spectral channel.

PARTICLE SIZE DISTRIBUTIONS  
Oct-Nov 1982 ODEX Cruise

Particle size distributions were measured with an electronic particle sizer using 50  $\mu\text{m}$  and 100  $\mu\text{m}$  apertures. The small aperture measured particles with spherical equivalent diameters between 2.2 and 7.9  $\mu\text{m}$ . The large aperture covers the range from 3.1  $\mu\text{m}$  to 15.8  $\mu\text{m}$ . Each data window includes particles with volumes between half powers of  $2 \mu\text{m}^3$ . For example, the first window of the small aperture covers particles with volumes between  $4\sqrt{2}$  and  $8 \mu\text{m}^3$ . There are eight windows of overlap between the two apertures. Discrepancies between the two were resolved for each of the overlapping windows in one of the following ways, in order of preference: (1) averaging the two values; or (2) choosing the value from one or the other aperture. The data for the sample was discarded if there was no agreement at all between the size distributions obtained by the two apertures.

Water samples were collected by electronically tripped rosette samplers. Depths given (meters) are computed from the average of the 36 data scans immediately prior to the tripping for the CTD samples. Samples from the Bio-optical profiling system are identified by a "B" after the depth which in this case is the nominal depth in meters as read from the consol upon firing.

Volume concentrations (ppm) were computed by multiplying the particle concentration in each window by the average of the delimiting volumes for that window. Assuming a hyperbolic distribution, this method of computing volume concentrations gives a value 0.5 to 2% high for a reasonable range of slopes. For the cleanest waters observed the particle concentrations are apparently near the resolution for the instrument as it was situated during this cruise.

The particulate volume concentrations for all samples were plotted (not shown) as a function of beam attenuation (600 nm) and samples which were obvious outliers are noted here by an H or an L after the volume concentration. An H indicates that the volume concentration was too high and an L indicates that the volume concentration was too low. The other symbols found after the volume are based on an examination of the size distribution (the logarithm of the particle number concentration vs. the logarithm of the particle diameter). A 1, 2 or 3 indicates apparent electronic noise in the first one, two or three size windows and a B indicates an abnormal bump usually in the middle of the size range for the large aperture but sometimes in the middle of both size ranges. We have not thrown this data out because we cannot prove that these observations are not real but we do believe that they are not. It is not likely that one window of noise would affect the slope or volume noticeably. A rough analysis indicates that two windows of noise would add 25% to the volume and 0.35 to the hyperbolic slope and three windows might produce a 100% error in volume and a 0.75 increase in hyperbolic slope. It is suggested that samples with a symbol in this column not be used.

The column labeled SLP1 is the differential hyperbolic slope of the first 8 particle size windows. This is computed by dividing the particle concentrations in each window by the width of the window in  $\mu\text{m}$  diameter and then computing the slope of the linear regression of the logarithms of these values versus the logarithm of the central diameter for each window. Likewise, SLP2 is the differential hyperbolic slope of the last 9 particle size windows. The column labeled KNEE is the diameter at which the two regression lines meet and the last column is the percent of the variance of the logarithm of the particle concentration density which is fit by the combined regressions.

## ACKNOWLEDGEMENTS

The success of the ODEX 3 cruise was due in large part to the crew of the R/V Acania under Capt. W. W. Reynolds, and to the ability of the twelve scientists, from four different institutions, to assist each other in overcoming the problems associated with crowding 18 people onto a 120 foot vessel for 40 days. Technician Robert Bartz was primarily responsible for the successful operation of the OSU-K Meter. The complex data acquisition software was developed by Frank Evans and Mark Borgersen of Corvallis, Oregon.

## REFERENCES

Stockel, James A., James L. Mueller, Hasong Pak, and David Menzies, 1986: Data from the Optical Dynamics Experiment (ODEX) R/V Acania Expedition of 10 Oct thru 17 Nov 1982, Vol 1: CTD and Optics Profiles. Data Report NPS-68-86-013 of the Naval Postgraduate School, Monterey California.

## **APPENDICES**

CDEX 3 STA 3 DN CAST  
LATITUDE 35.4010N

LONGITUDE 121.4980W

DENSITY  $\sigma$

22            23            24            25            26            27

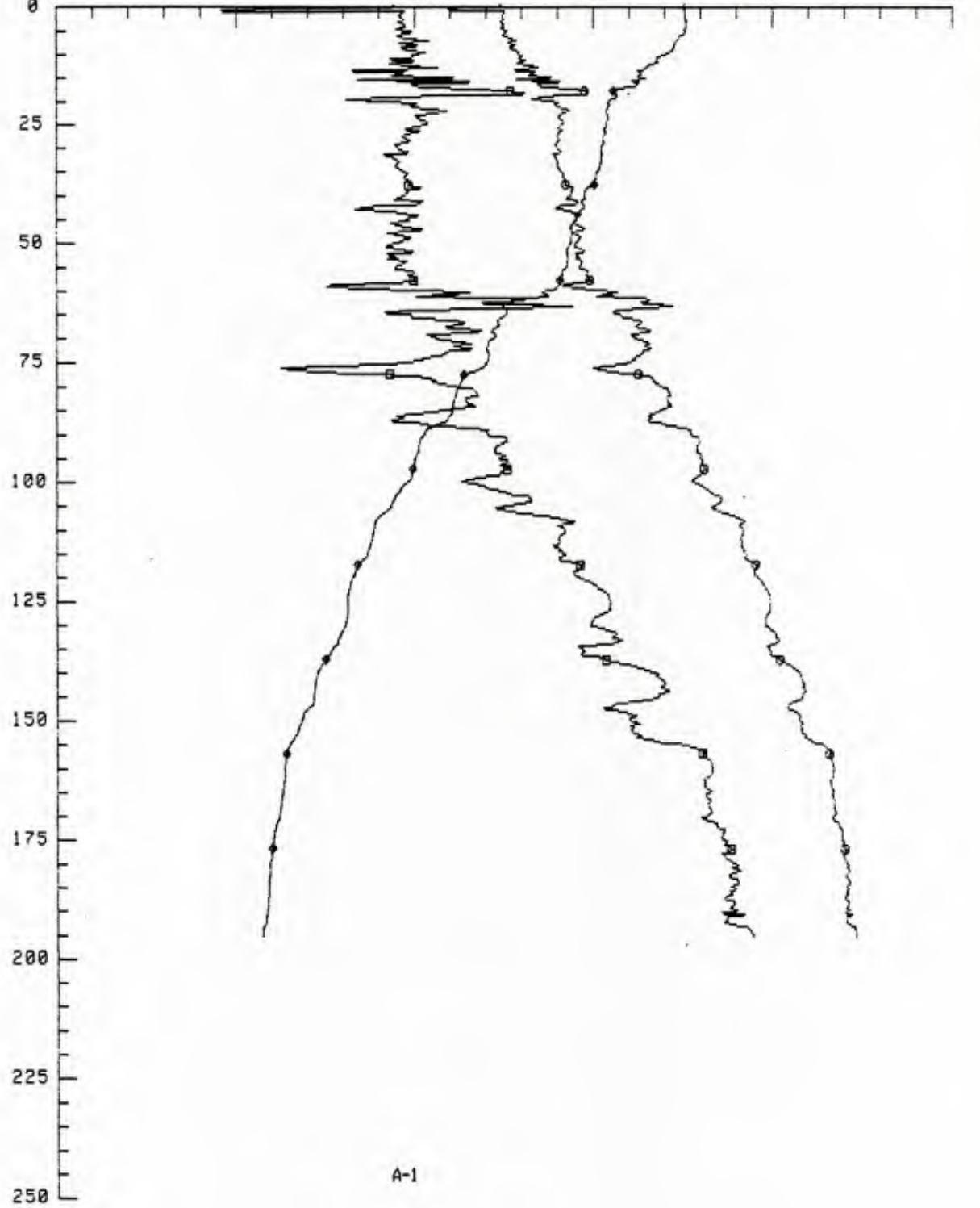
SALINITY  $\sigma$

32.5            32.9            33.3            33.7            34.1            34.5

TEMP.  $^{\circ}$

5            8            11            14            17            20

DEPTH (M)



ODEX 3 STA 7 DN CAST

LATITUDE 35.1948N

LONGITUDE 121.3000W

DENSITY  $\sigma$

22      23      24      25      26      27

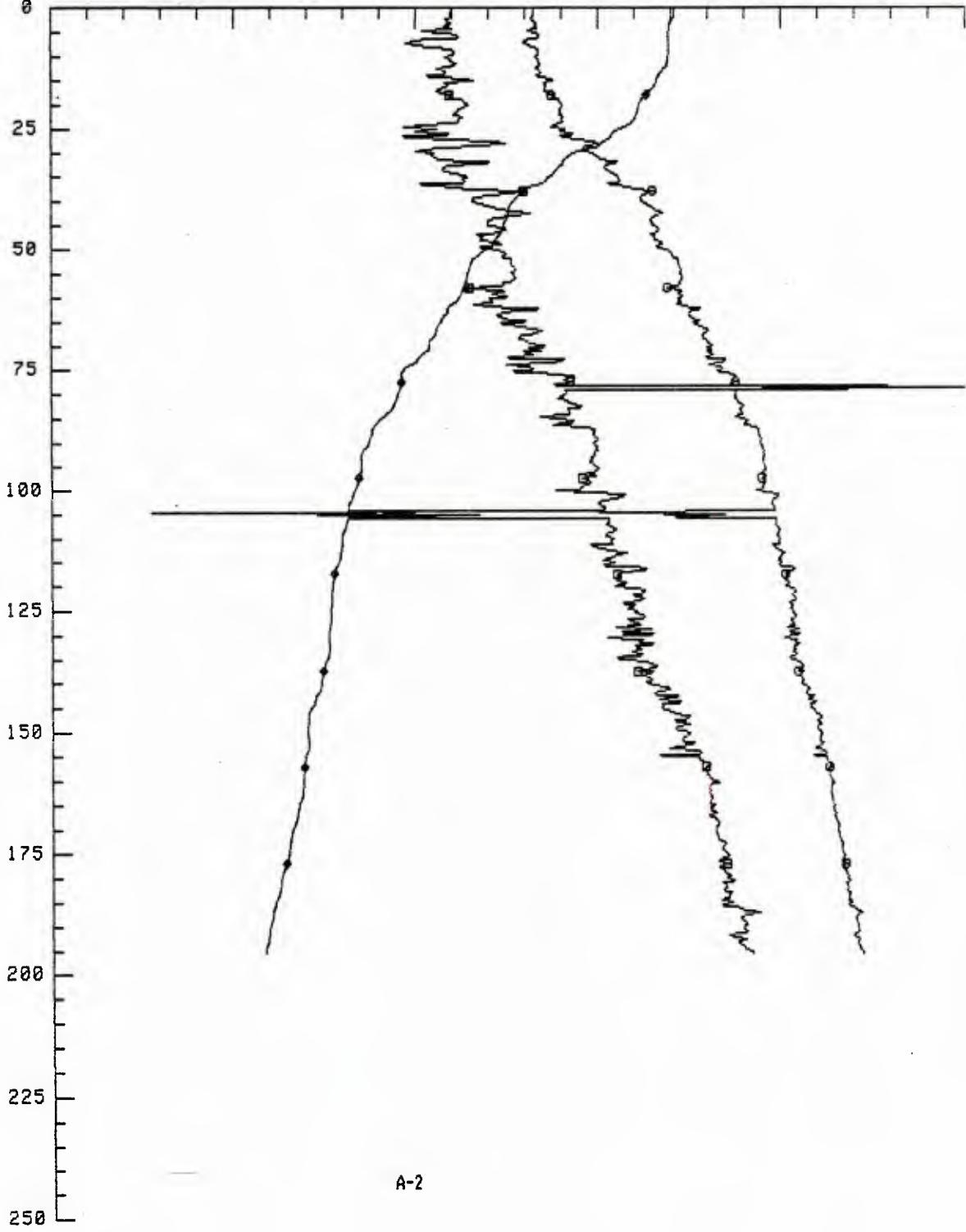
SALINITY  $\sigma$

32.5      32.9      33.3      33.7      34.1      34.5

TEMP.  $\circ$

5      8      11      14      17      20

DEPTH (M)



A-2

ODEX 3 STA 7 UP CAST  
LATITUDE 35.1940N

LONGITUDE 121.3880W

DENSITY  $\sigma$

22            23            24            25            26            27

SALINITY  $\sigma$

32.5            32.9            33.3            33.7            34.1            34.5

TEMP.  $^{\circ}$

5            8            11            14            17            20

DEPTH (M)

25

50

75

100

125

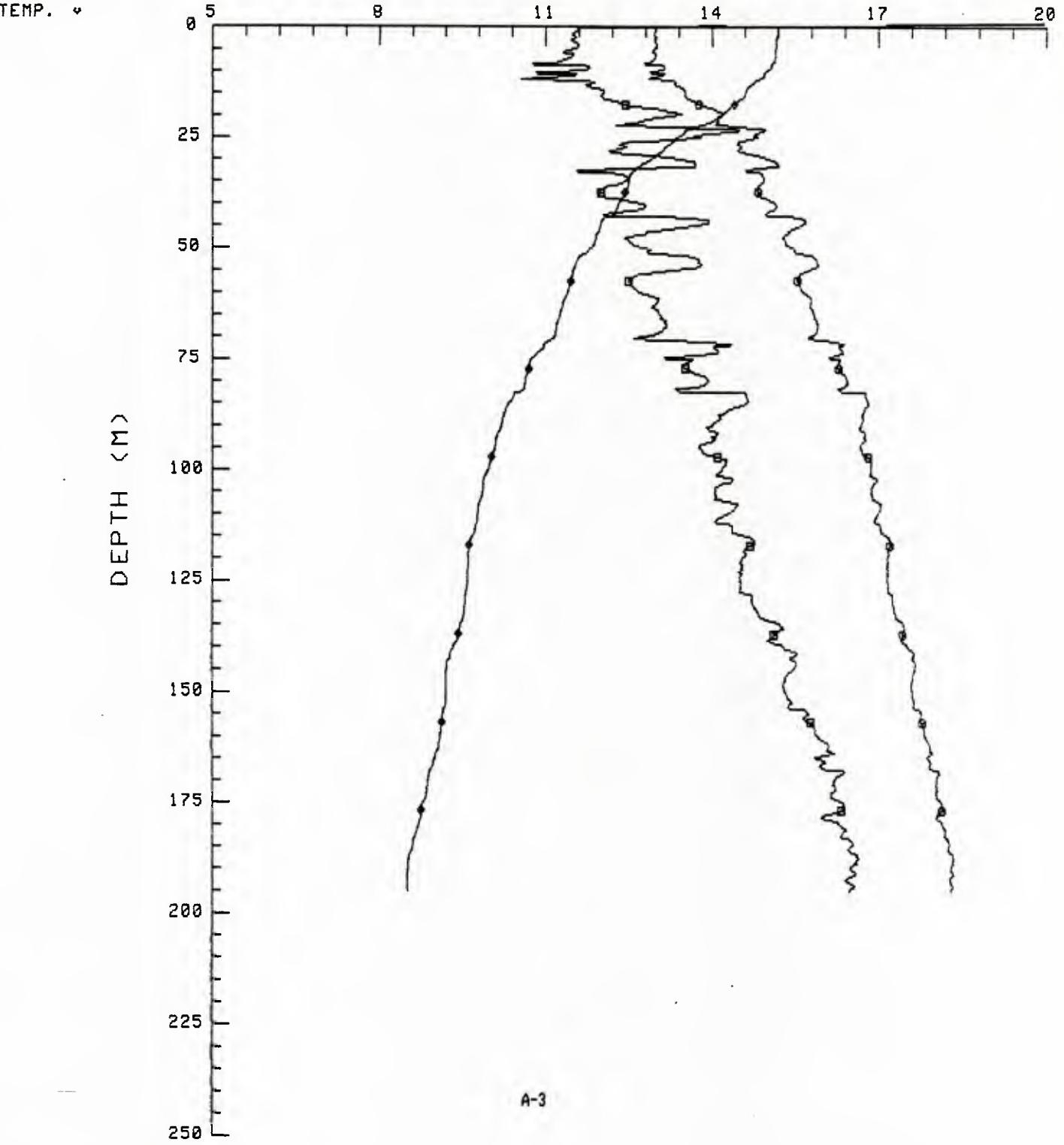
150

175

200

225

250



STA-8 UP  
LATITUDE 35.1900N

LONGITUDE 121.1800W

DENSITY  $\sigma$

22

23

24

25

26

27

SALINITY  $\sigma$

32.5

32.9

33.3

33.7

34.1

34.5

TEMP.  $^{\circ}$

5

8

11

14

17

20

DEPTH (M)

0

25

50

75

100

125

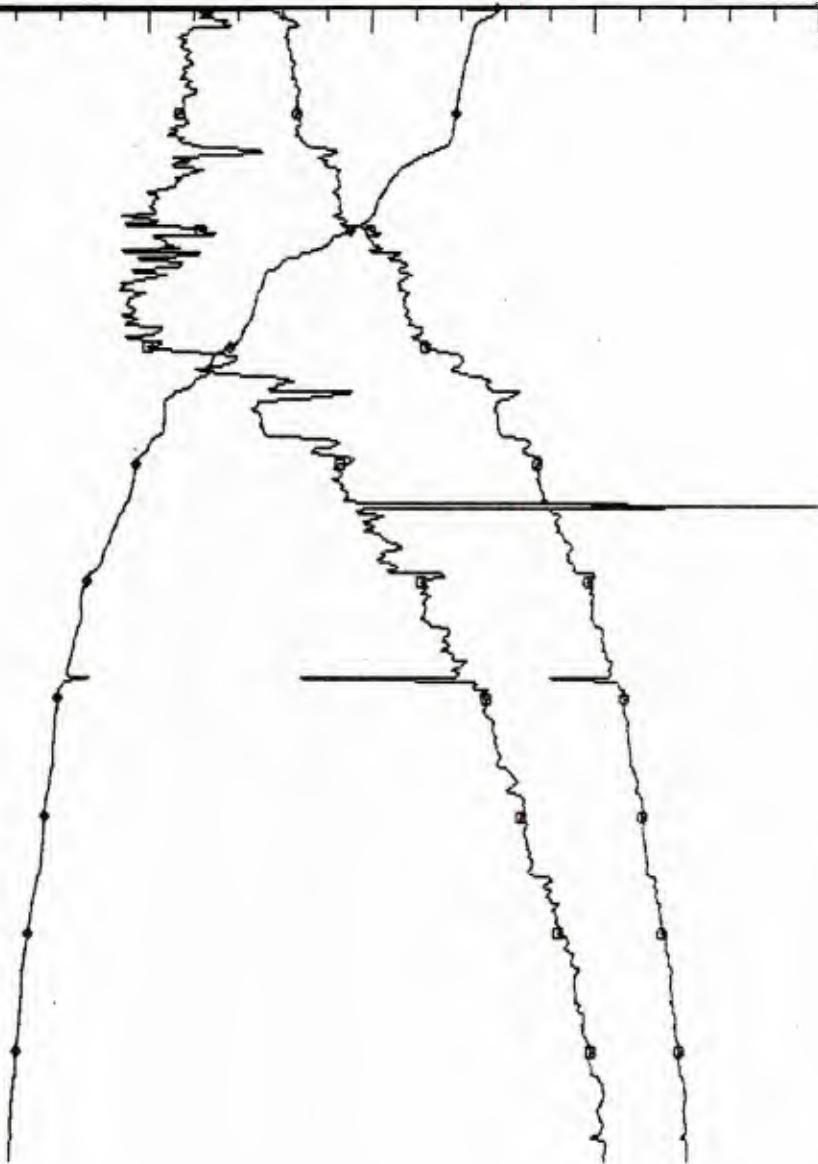
150

175

200

225

250



A-4

ODEX 3 STA 9 18-12-82 2314Z DN CAST  
LATITUDE 35.1918N      LONGITUDE 121.8668W

DENSITY σ

22            23            24            25            26            27

SALINITY □

32.5        32.9        33.3        33.7        34.1        34.5

TEMP. °

5            8            11            14            17            20

DEPTH (M)

0

25

50

75

100

125

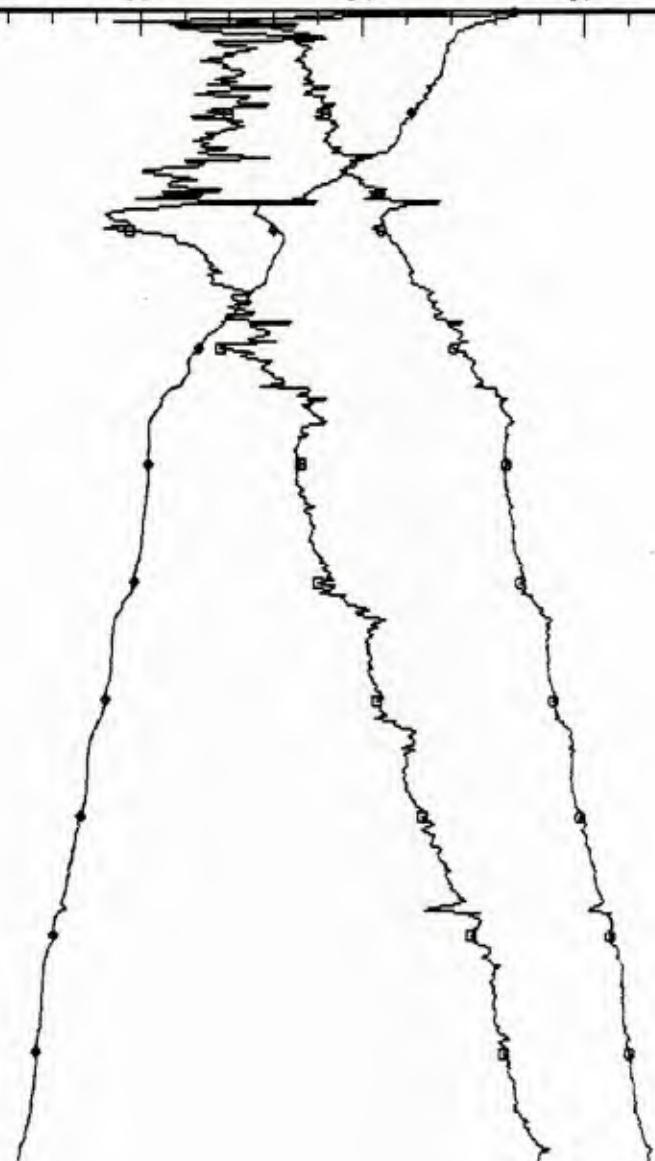
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175

200

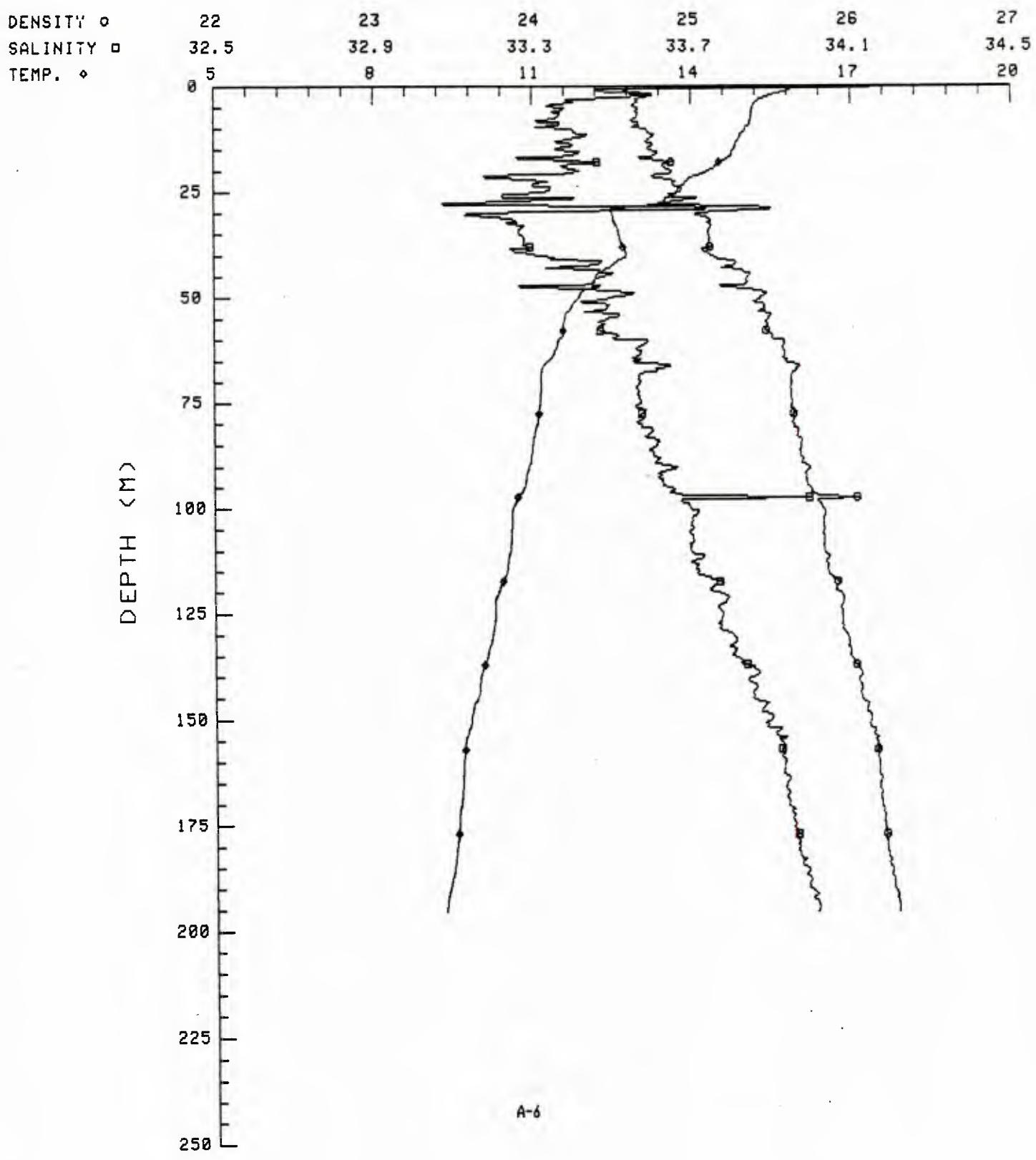
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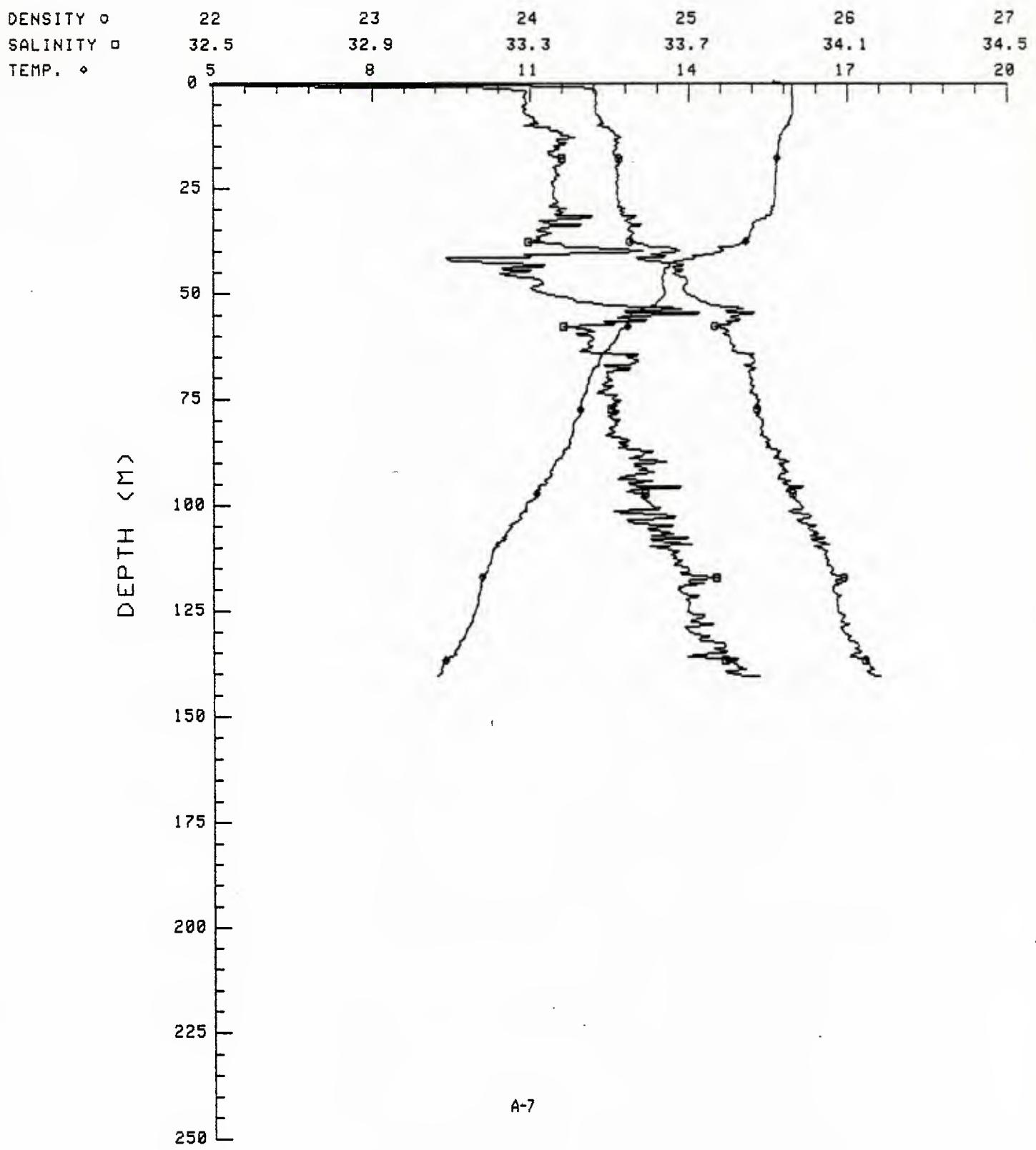


A-5

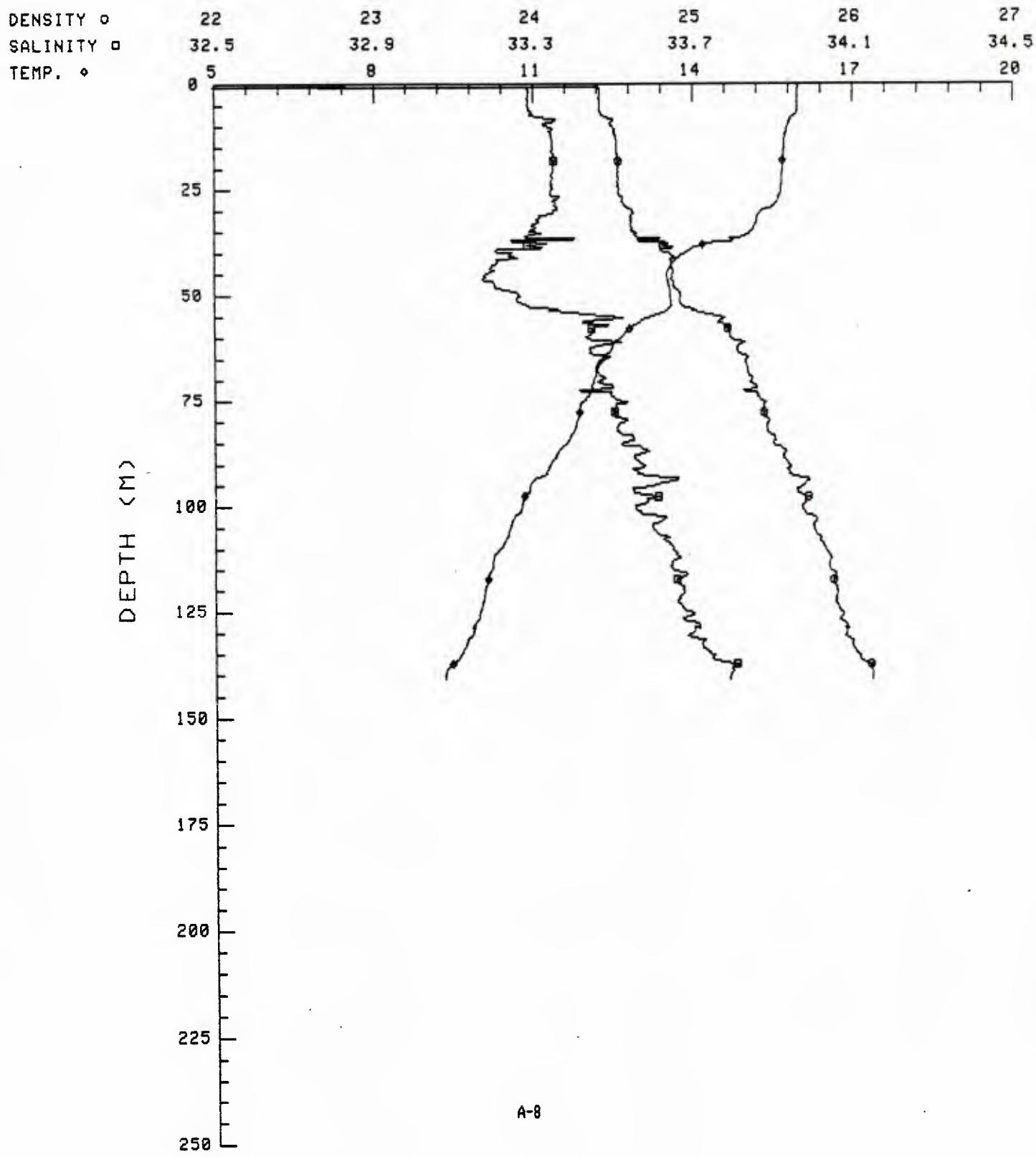
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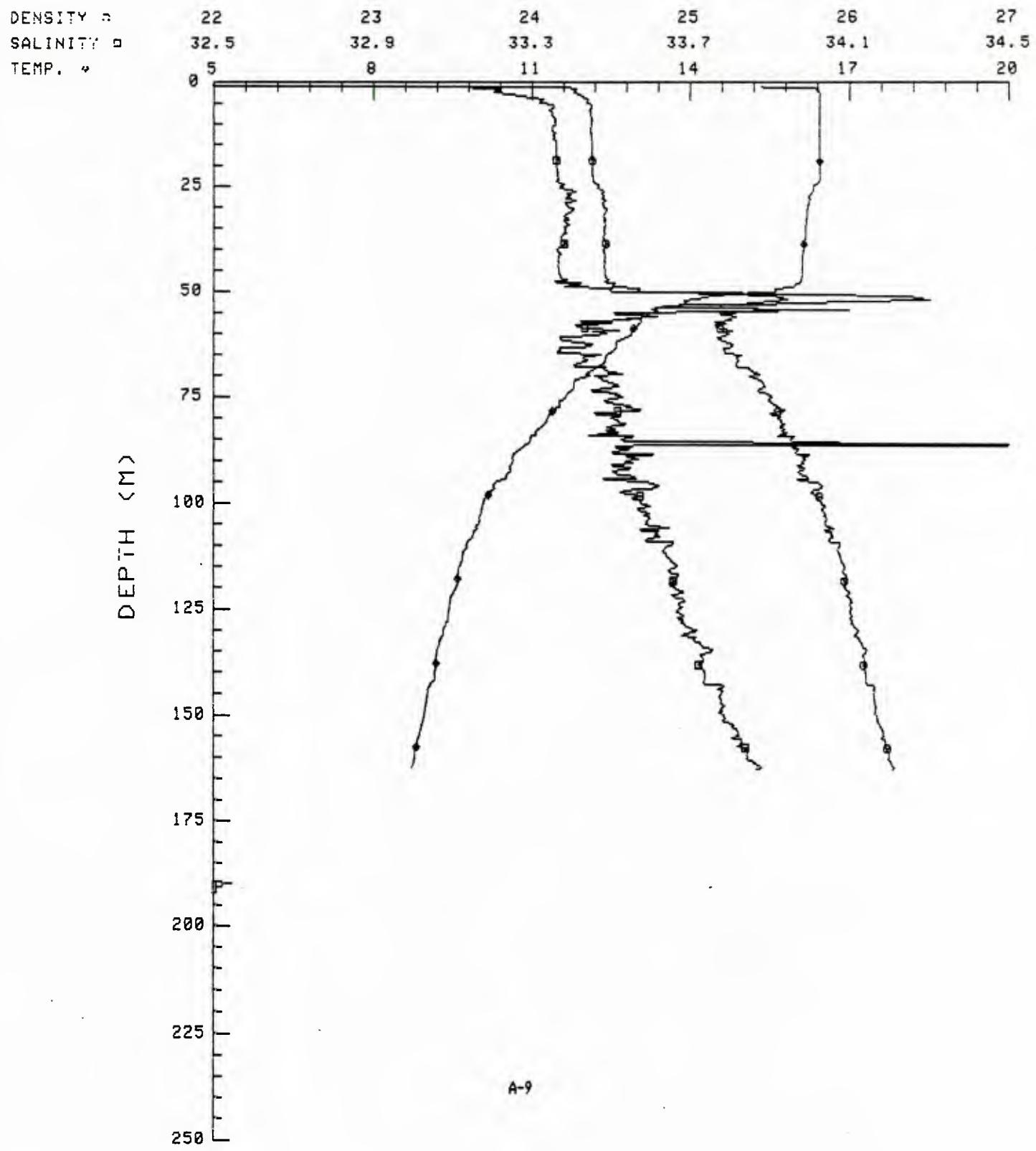
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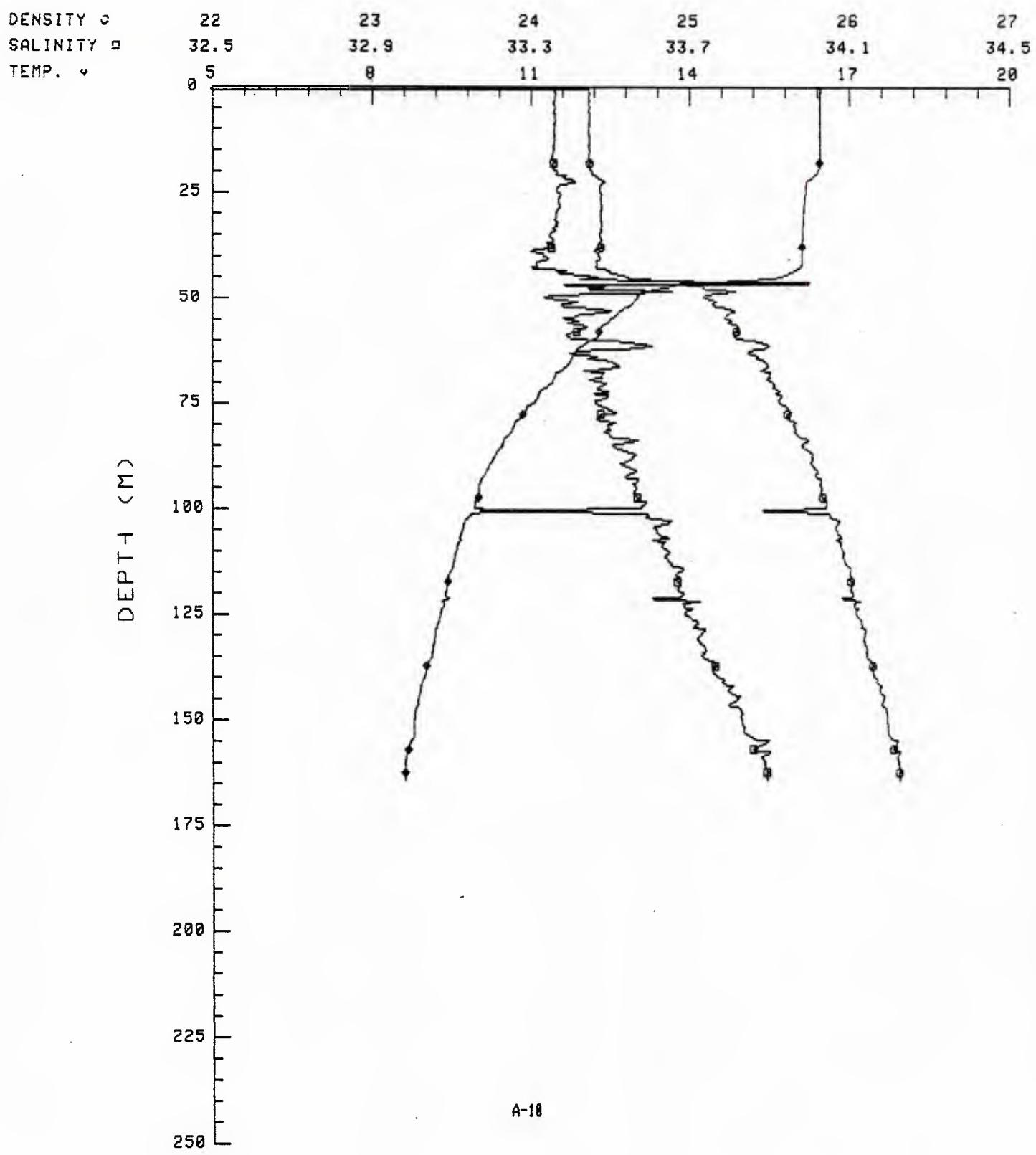
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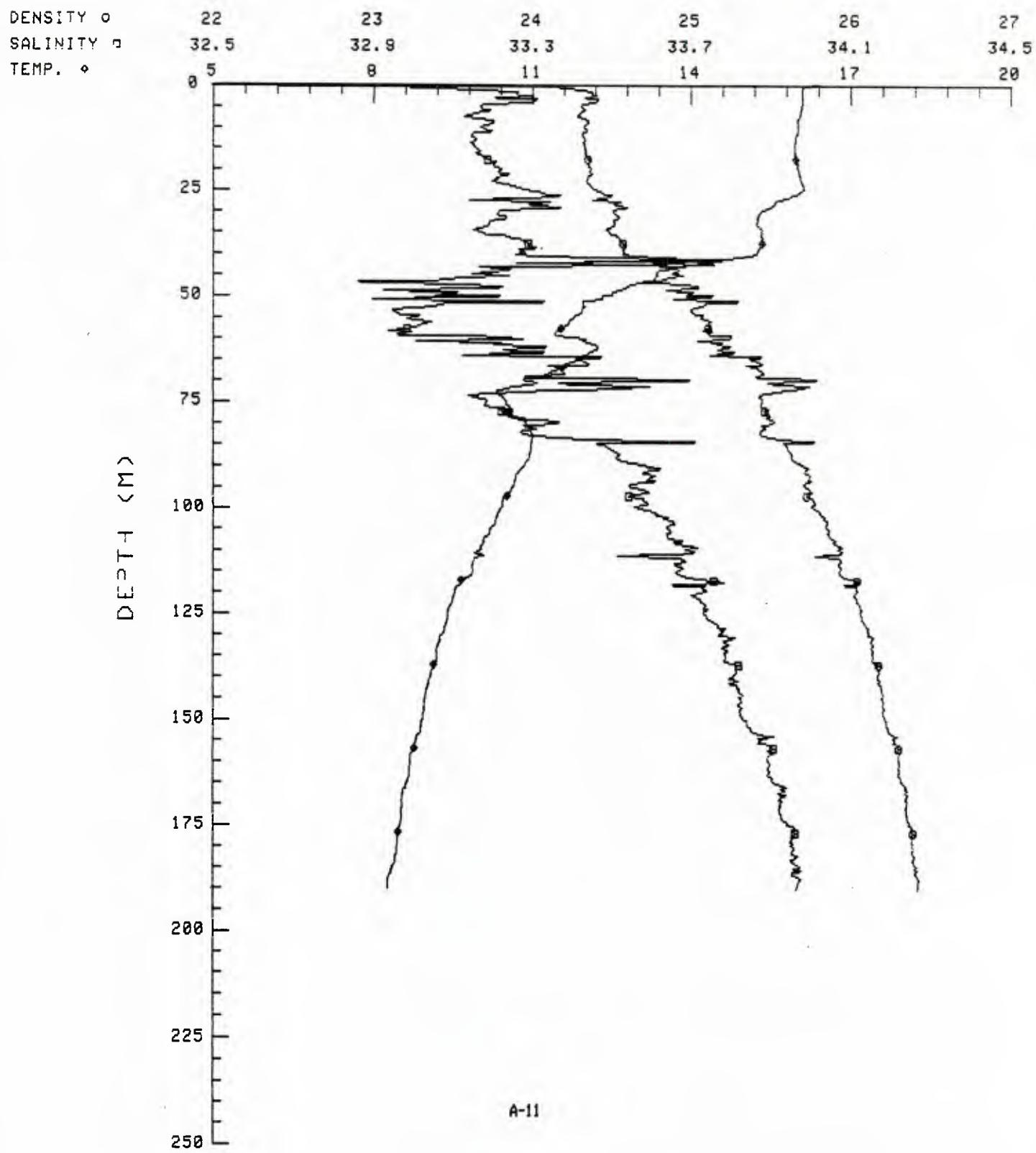
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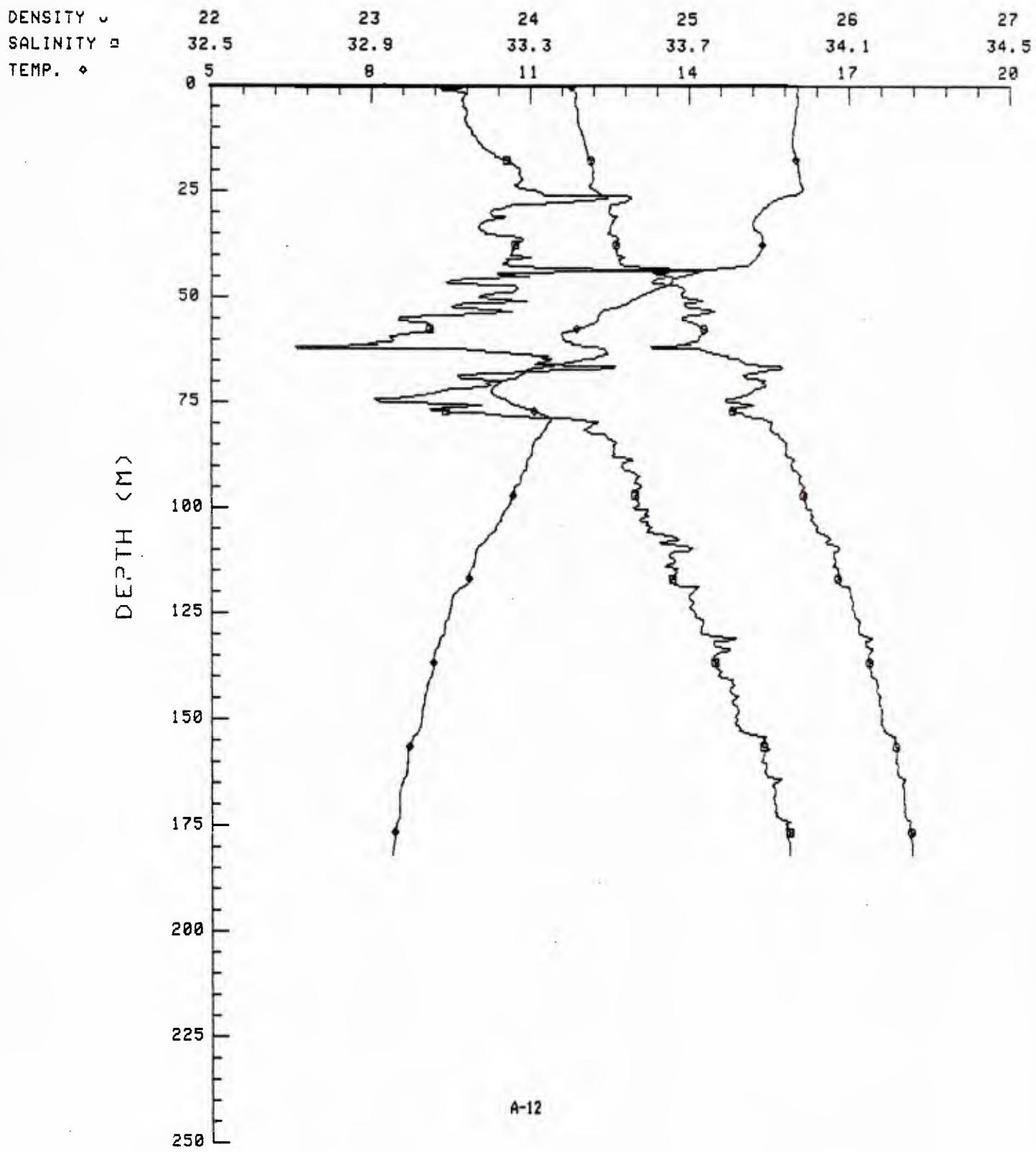
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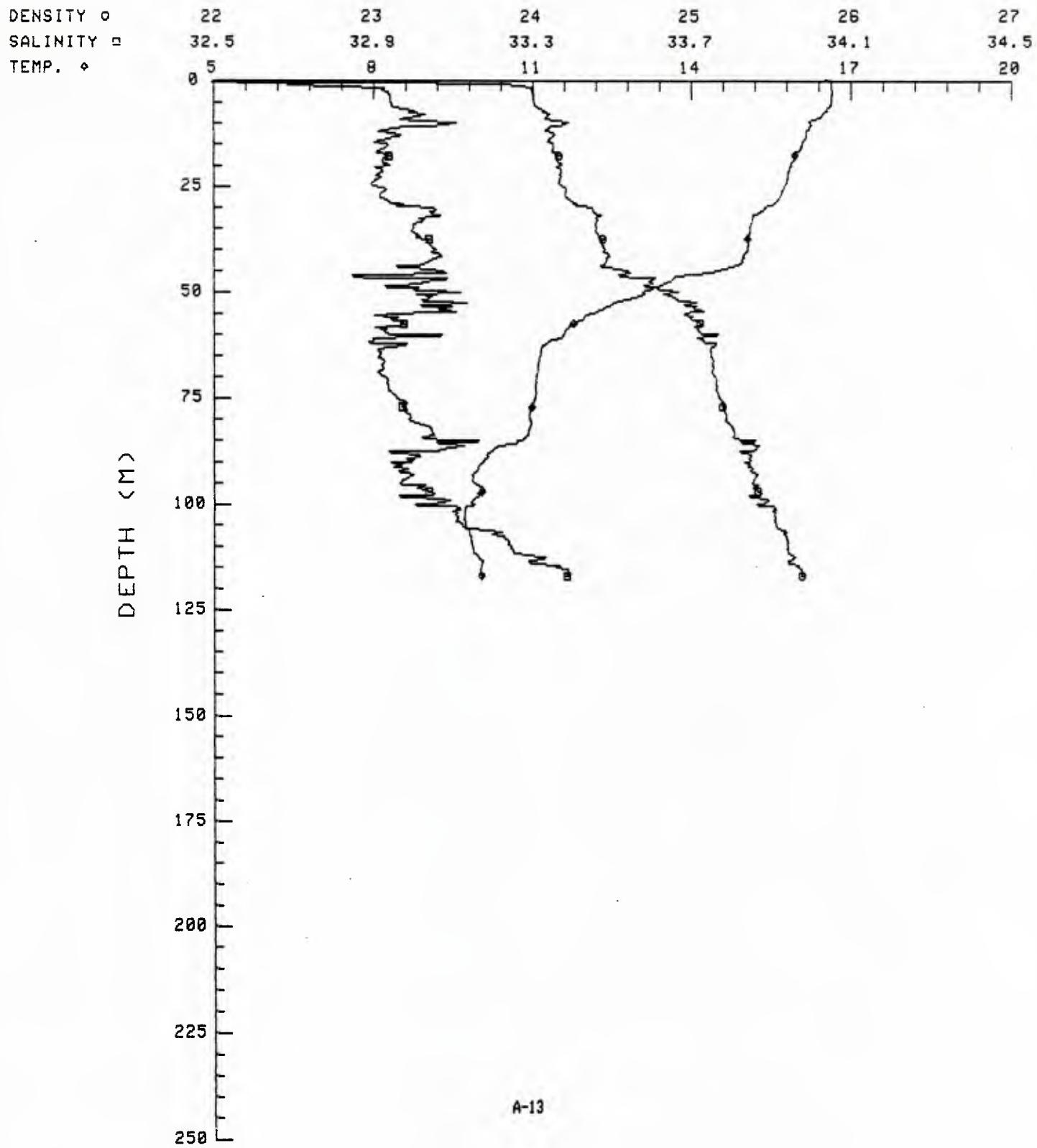
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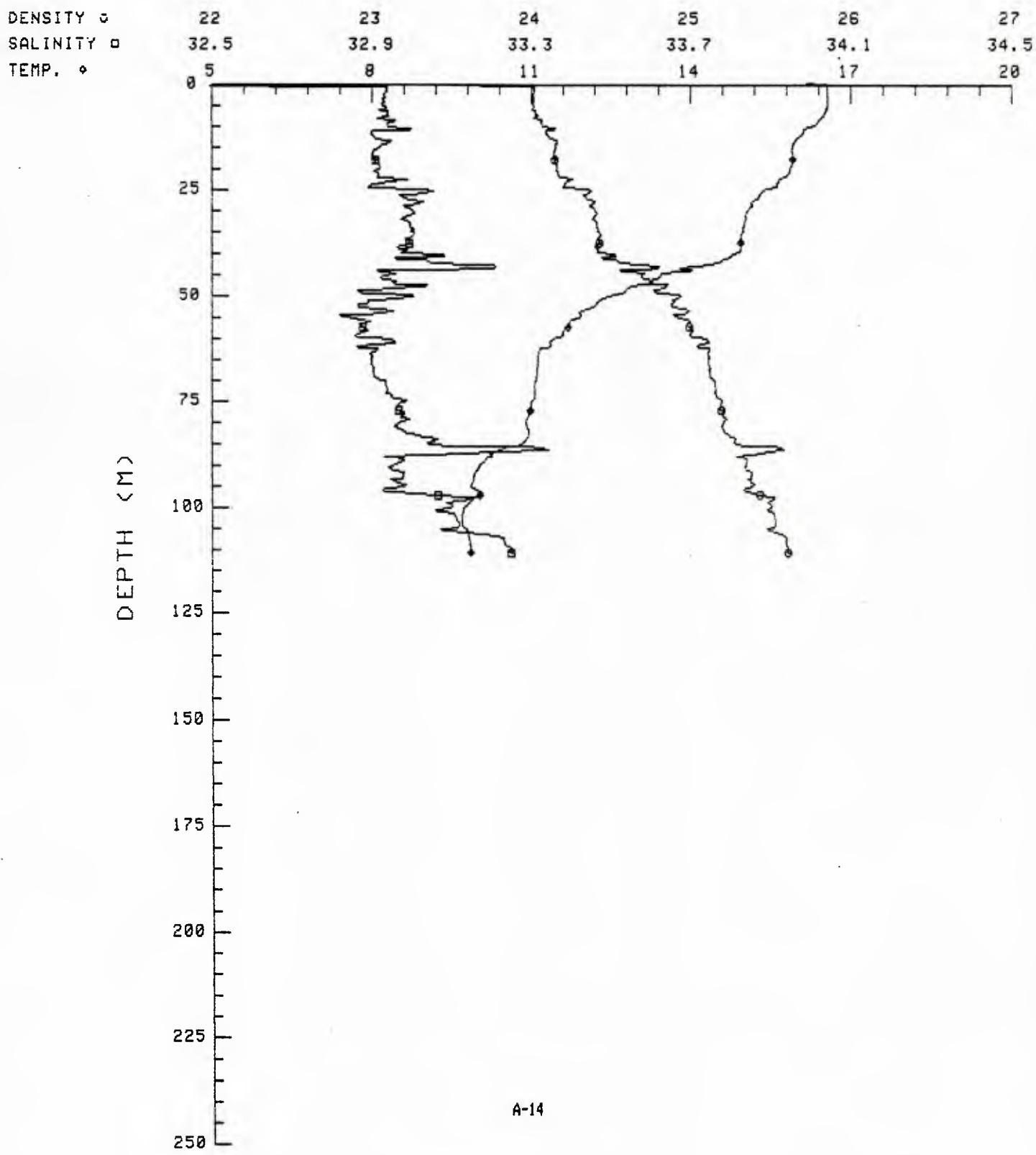
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LATITUDE 34.586N      LONGITUDE 123.143E



ODEX 3 STA 21 UP CAST 10-16-82 0058Z  
LATITUDE 34.5864N      LONGITUDE 123.1436W



ODEX 3 STA 25 ON CAST 10-16-82 21:12  
LATITUDE 35.0975N      LONGITUDE 124.4242W

DENSITY  $\sigma$

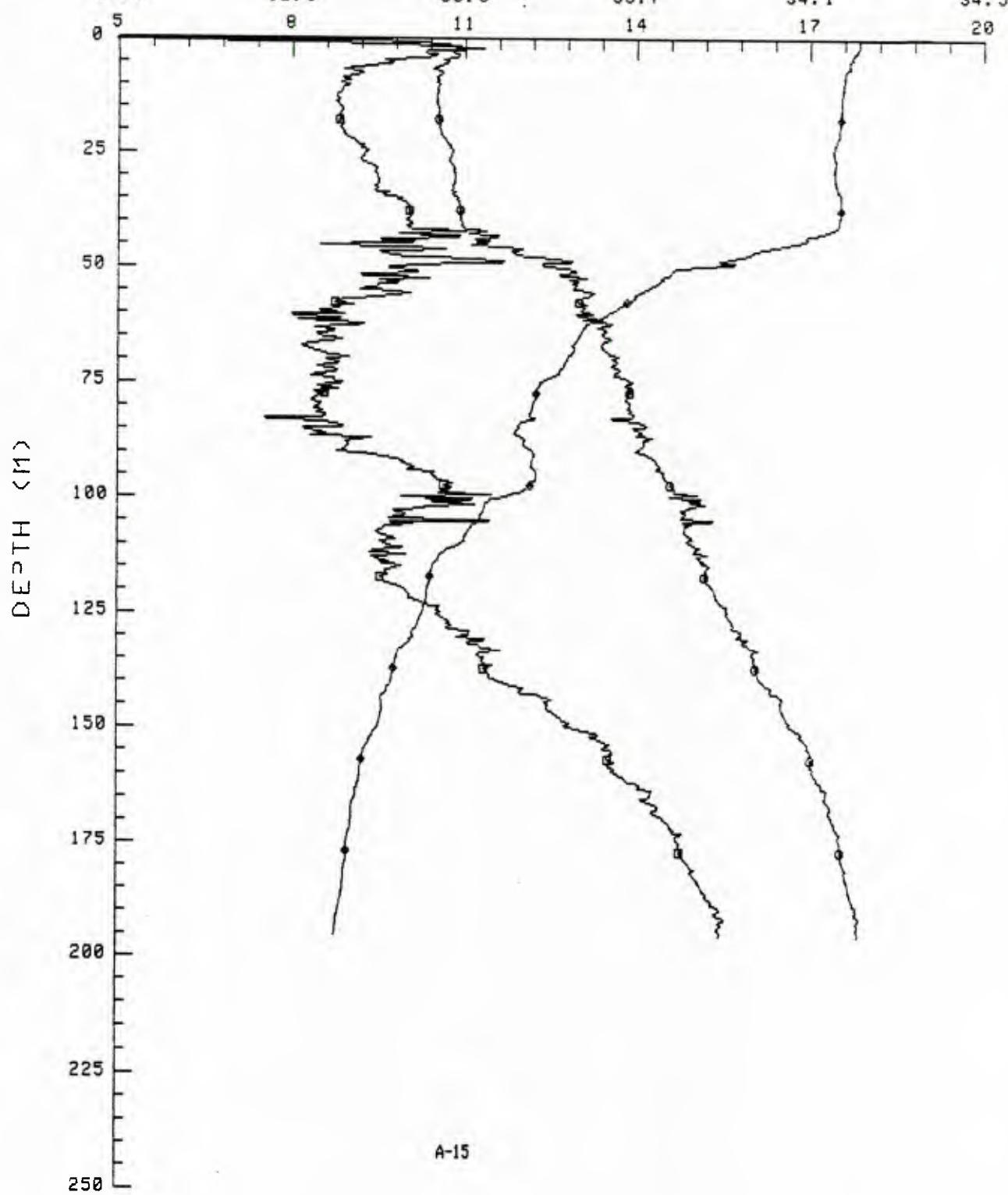
22            23            24            25            26            27

SALINITY  $\sigma$

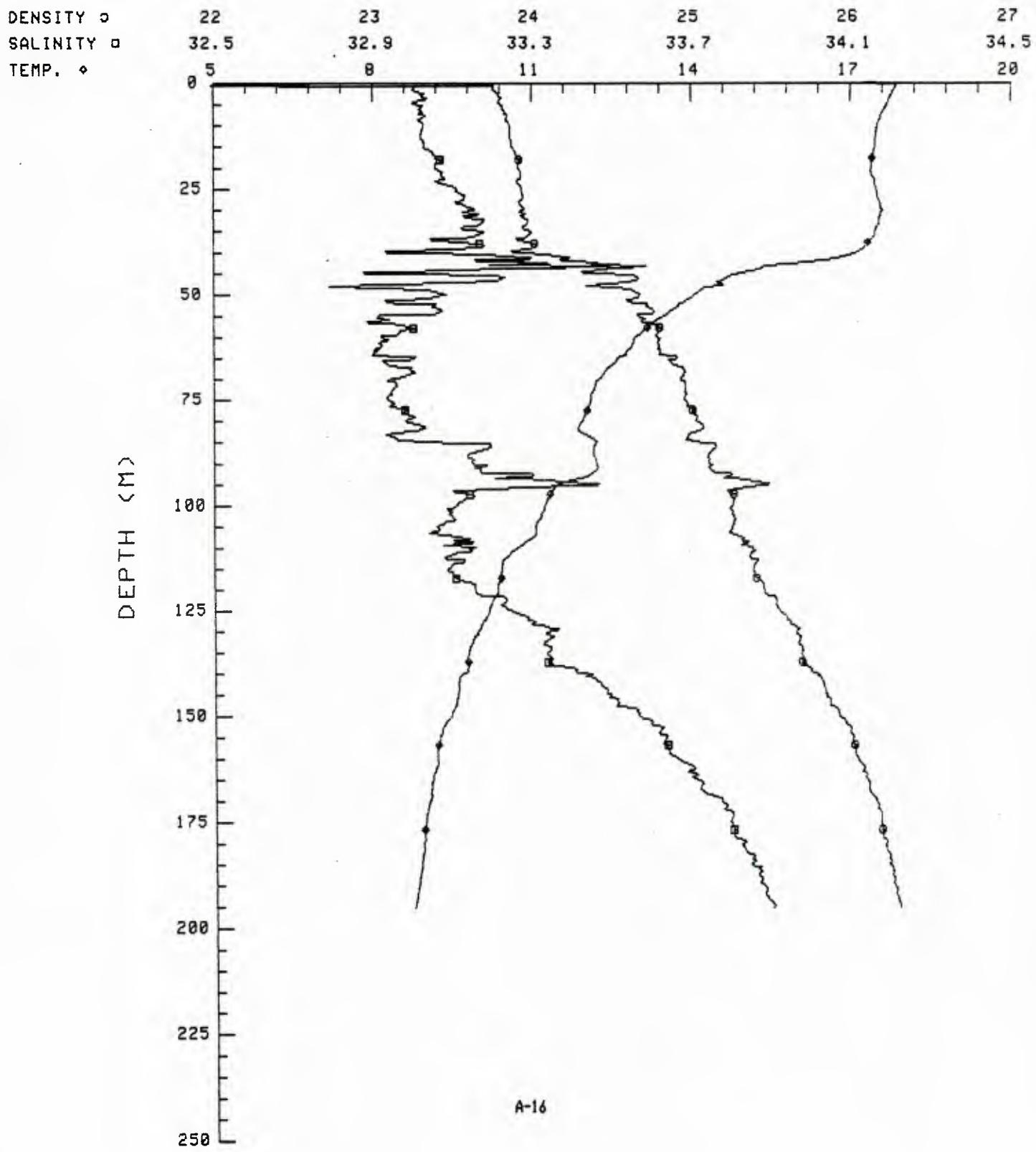
32.5            32.9            33.3            33.7            34.1            34.5

TEMP.  $^{\circ}$

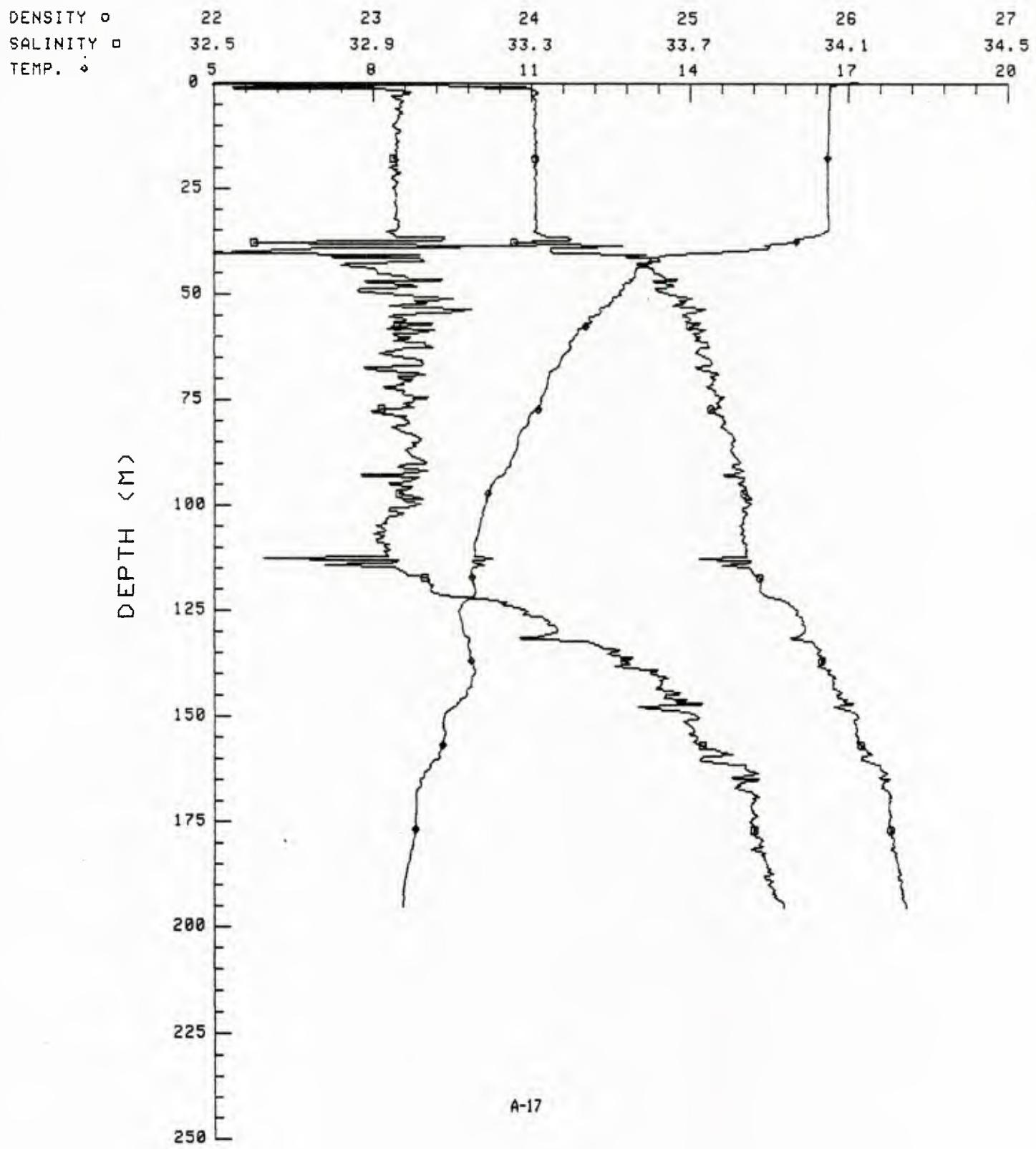
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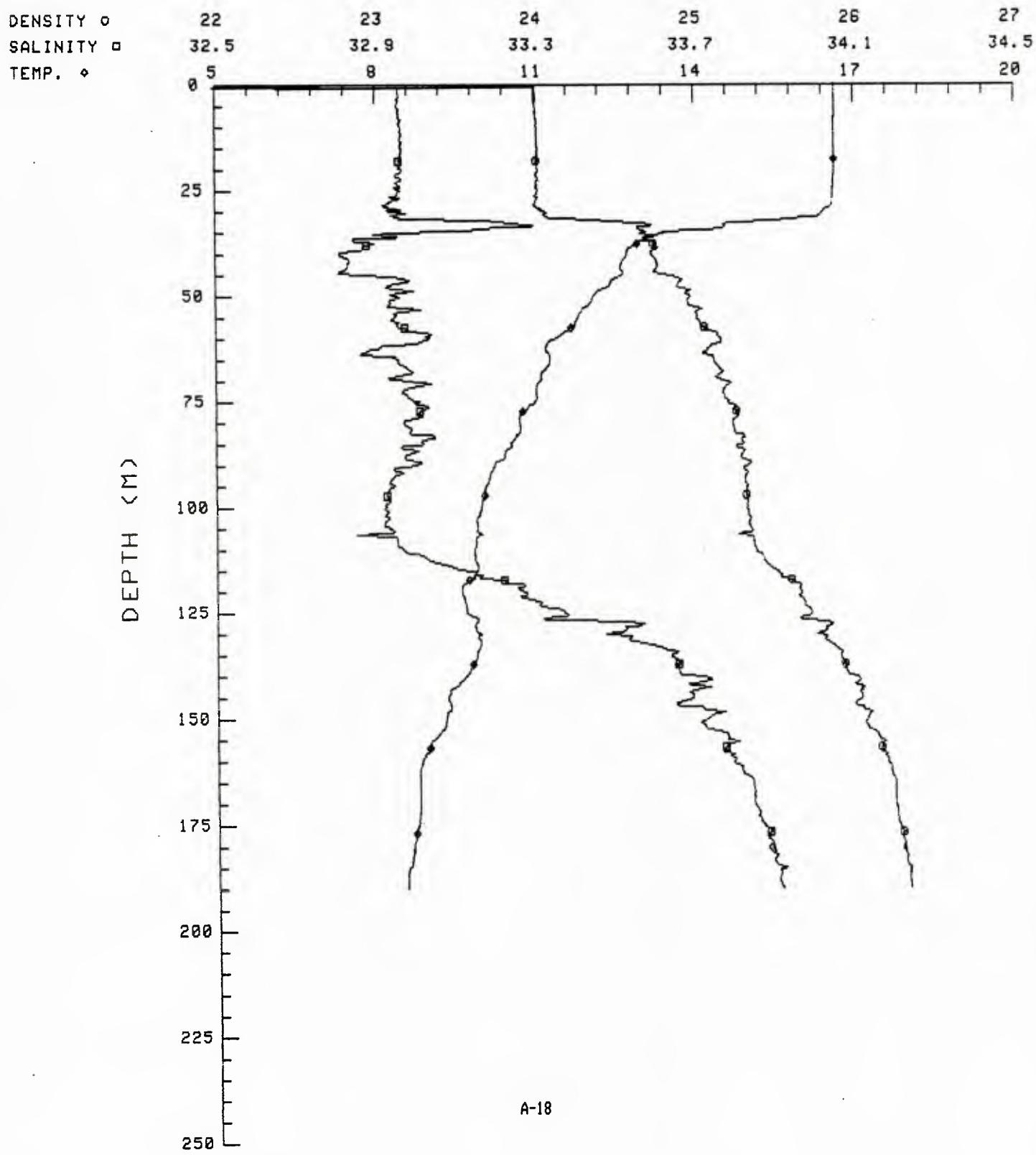
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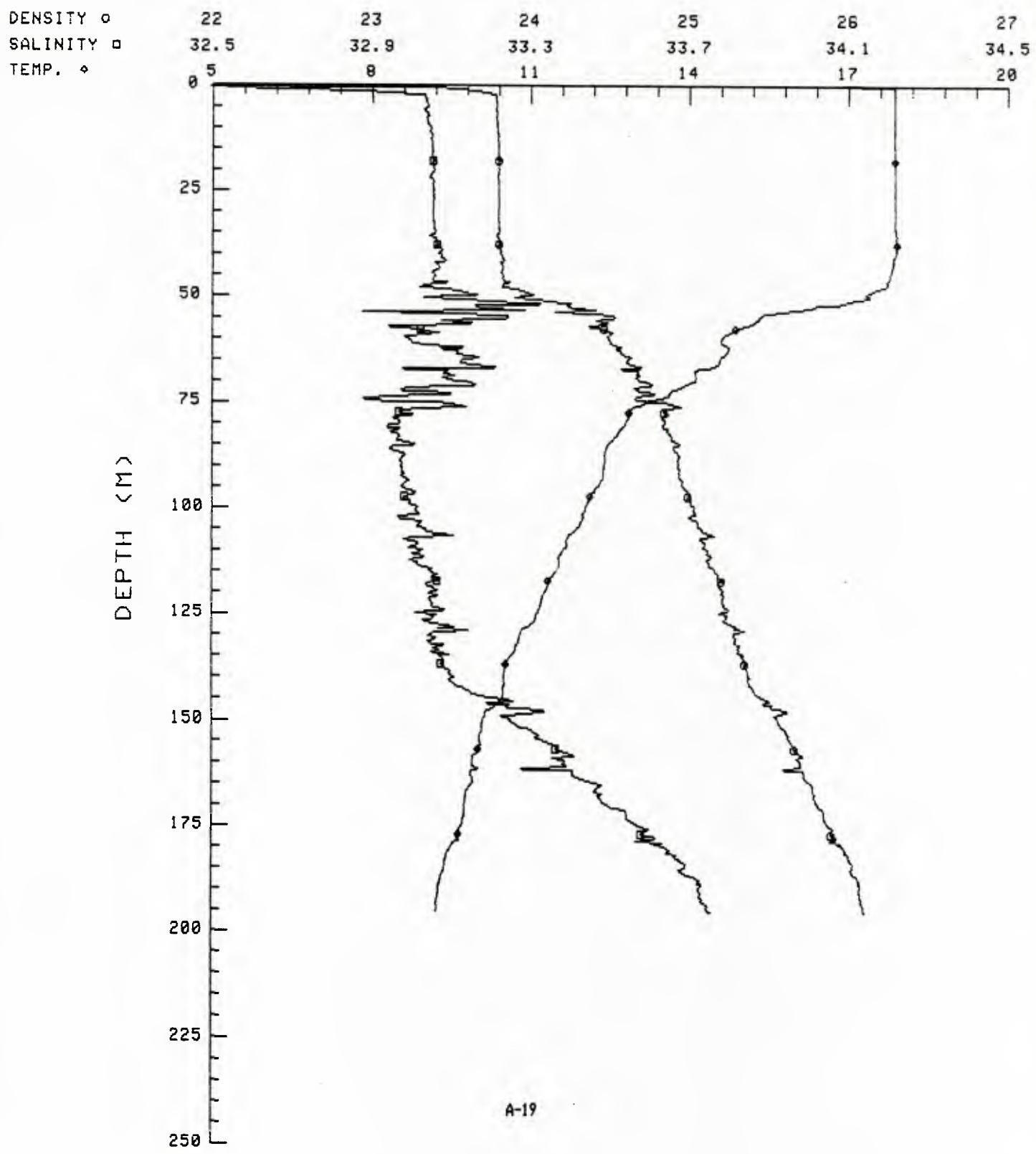
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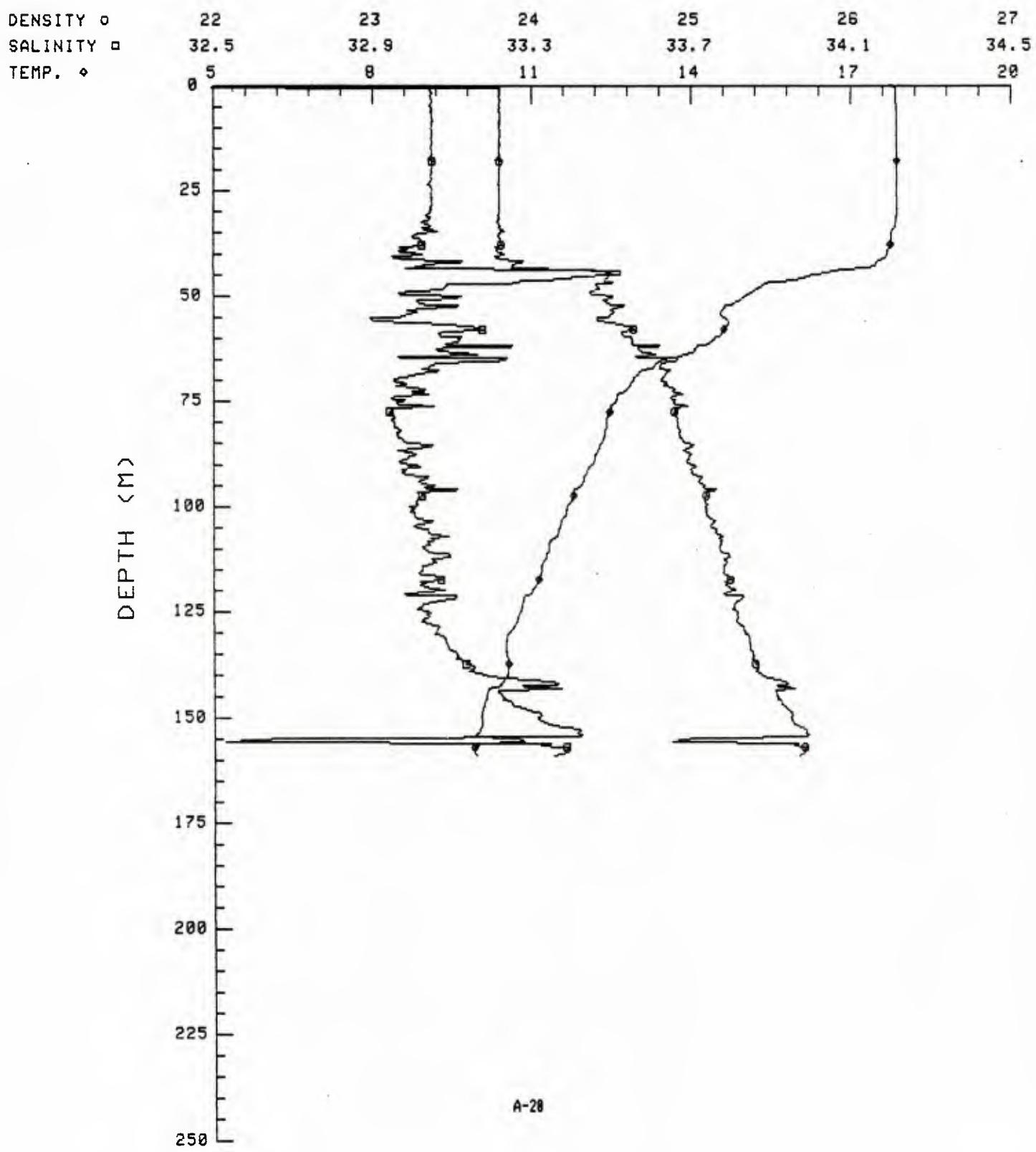
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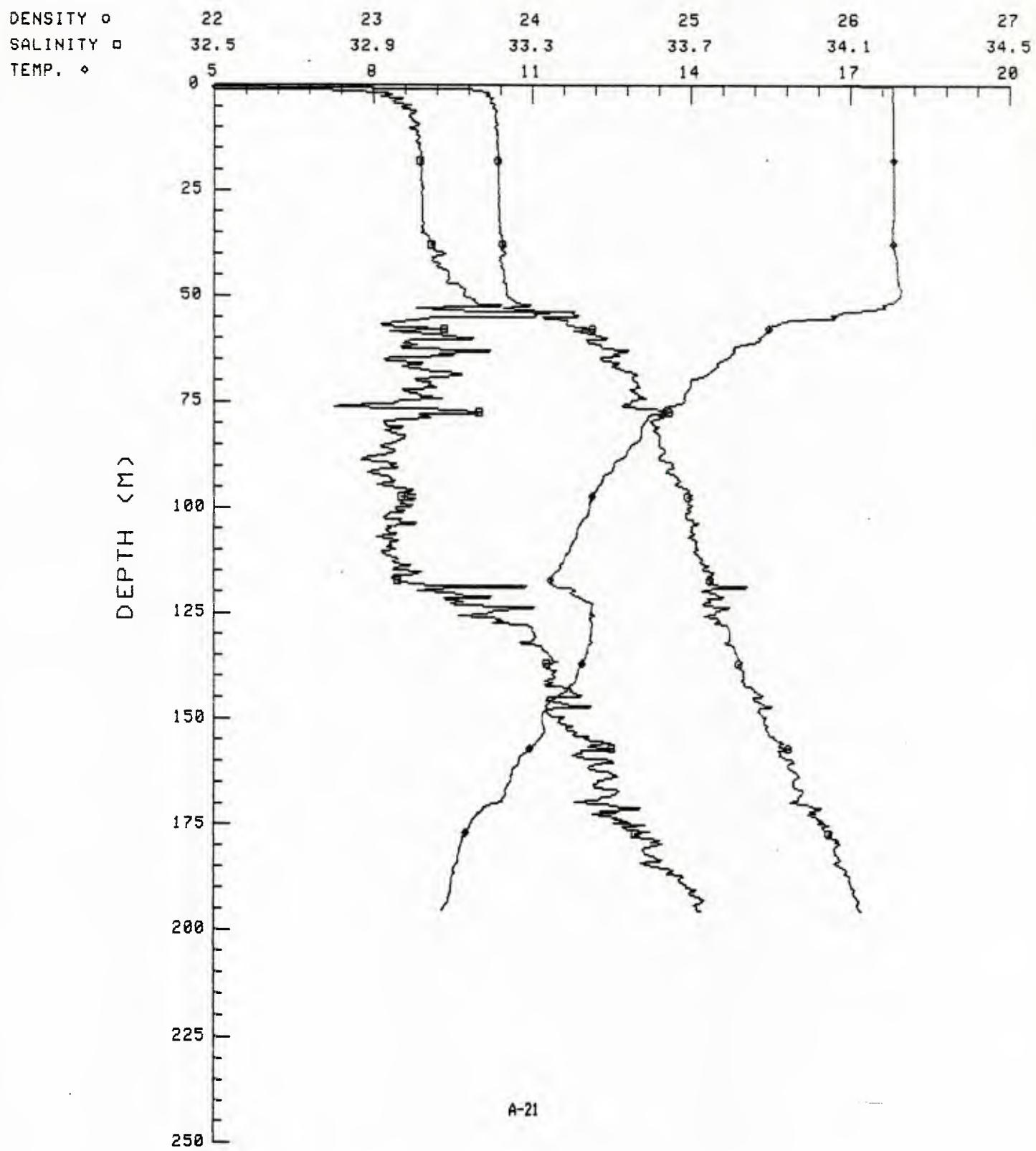
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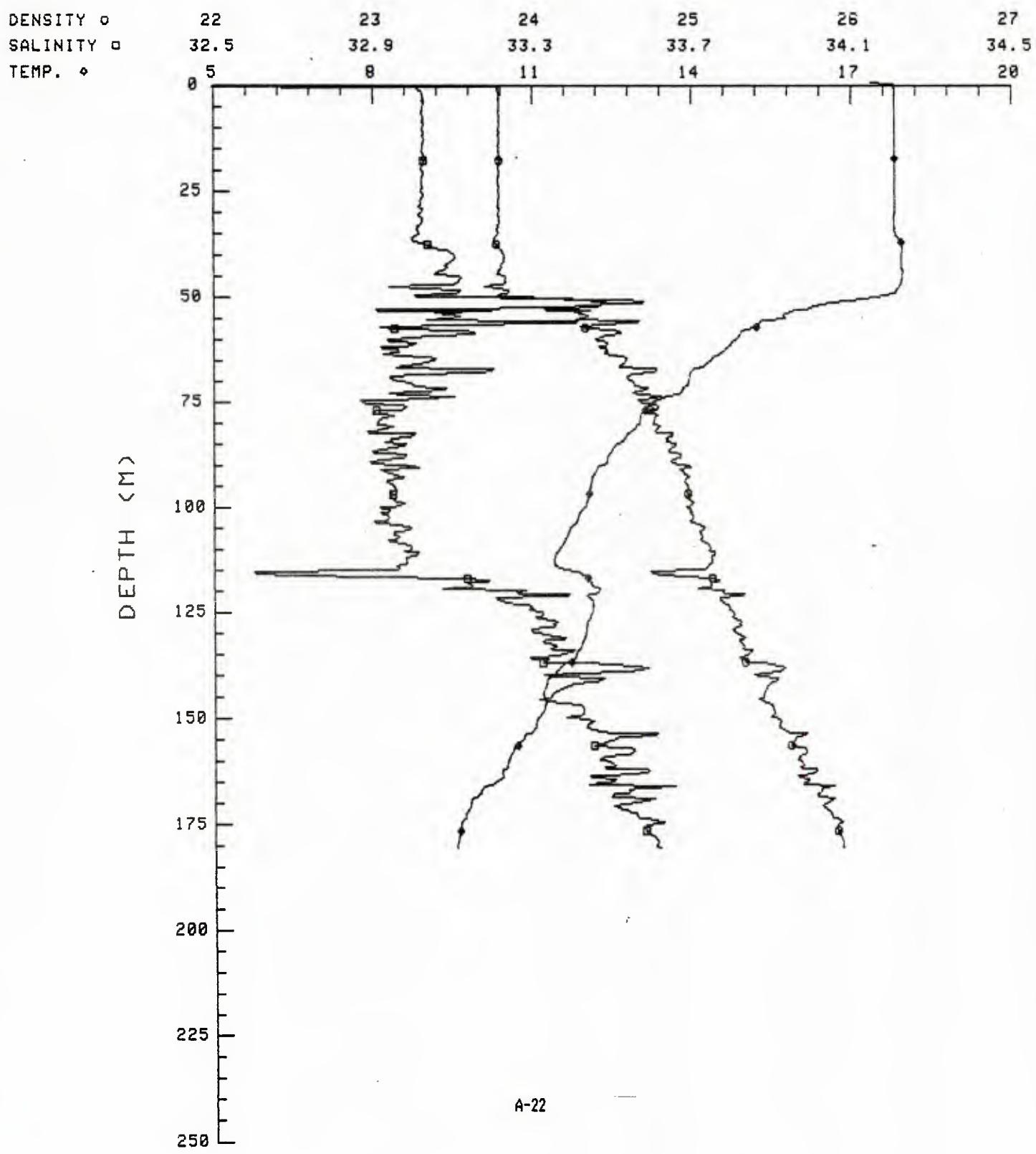
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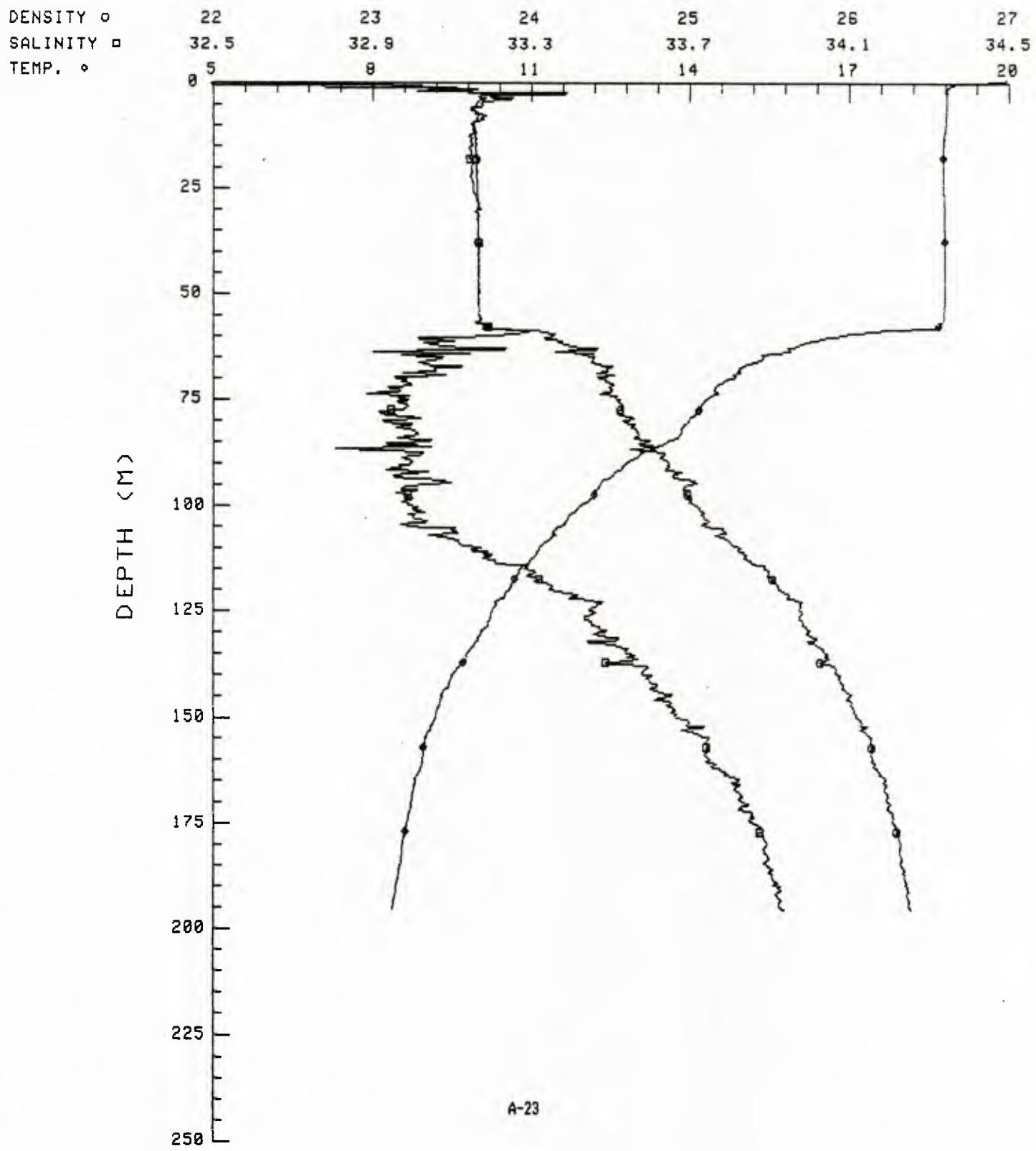
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LATITUDE 34.9990N LONGITUDE 125.4549W



ODEX 3 STA 38 UP CAST 10-18-82 2149Z  
LATITUDE 34.9998N      LONGITUDE 125.4549W



ODEX 3 STA 44 DN CAST 10-19-82 20:50  
LATITUDE 34.2950N      LONGITUDE 128.1070W



ODEX 3 STA 44 UP CAST 18-19-82 2110Z

LATITUDE 34.2950N

LONGITUDE 128.8990W

DENSITY  $\sigma$

22

23

24

25

26

27

SALINITY  $\sigma$

32.5

32.9

33.3

33.7

34.1

34.5

TEMP.  $\phi$

5

8

11

14

17

20

DEPTH (M)

0

25

50

75

100

125

150

175

200

225

250

0

25

50

75

100

125

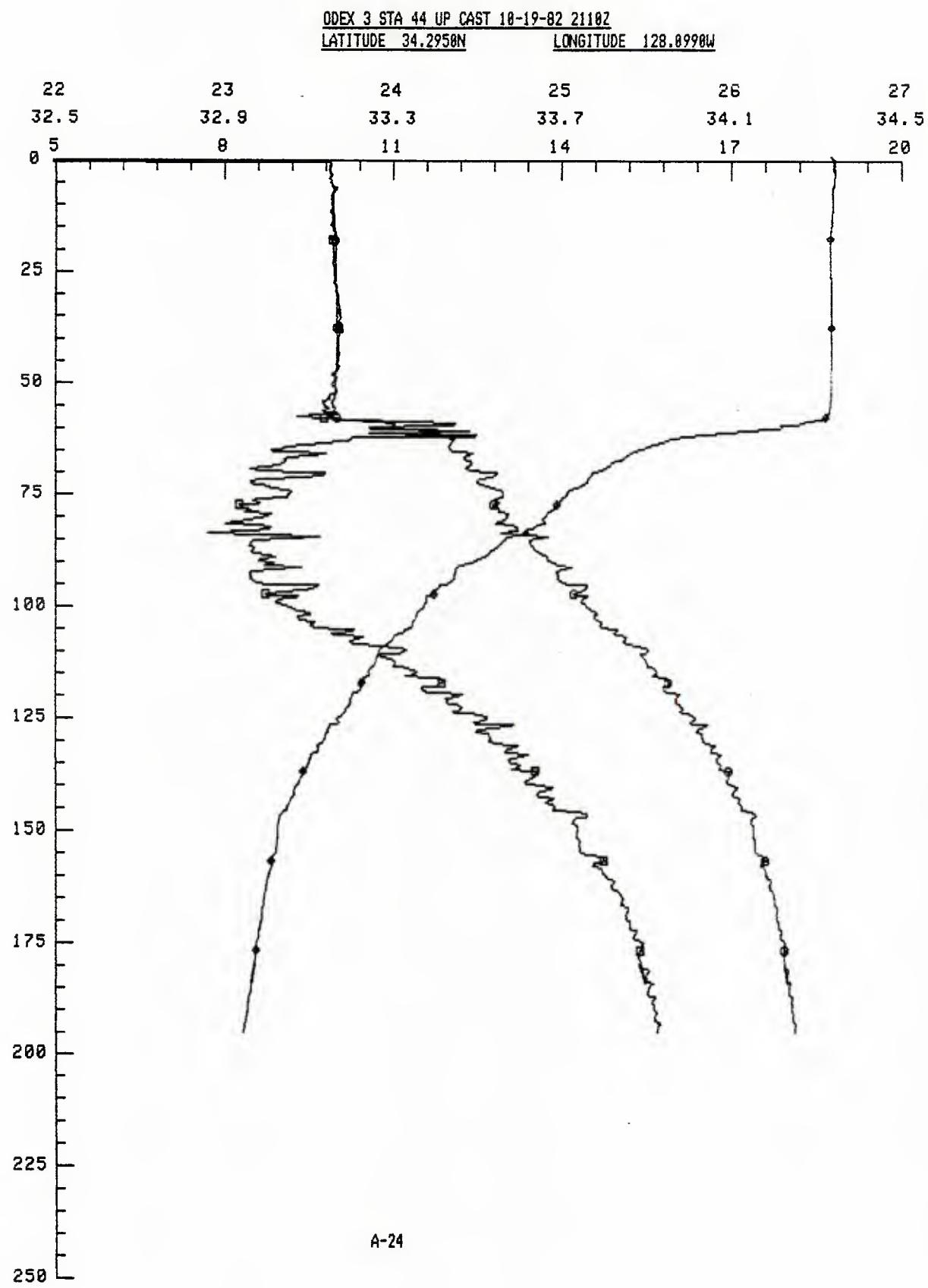
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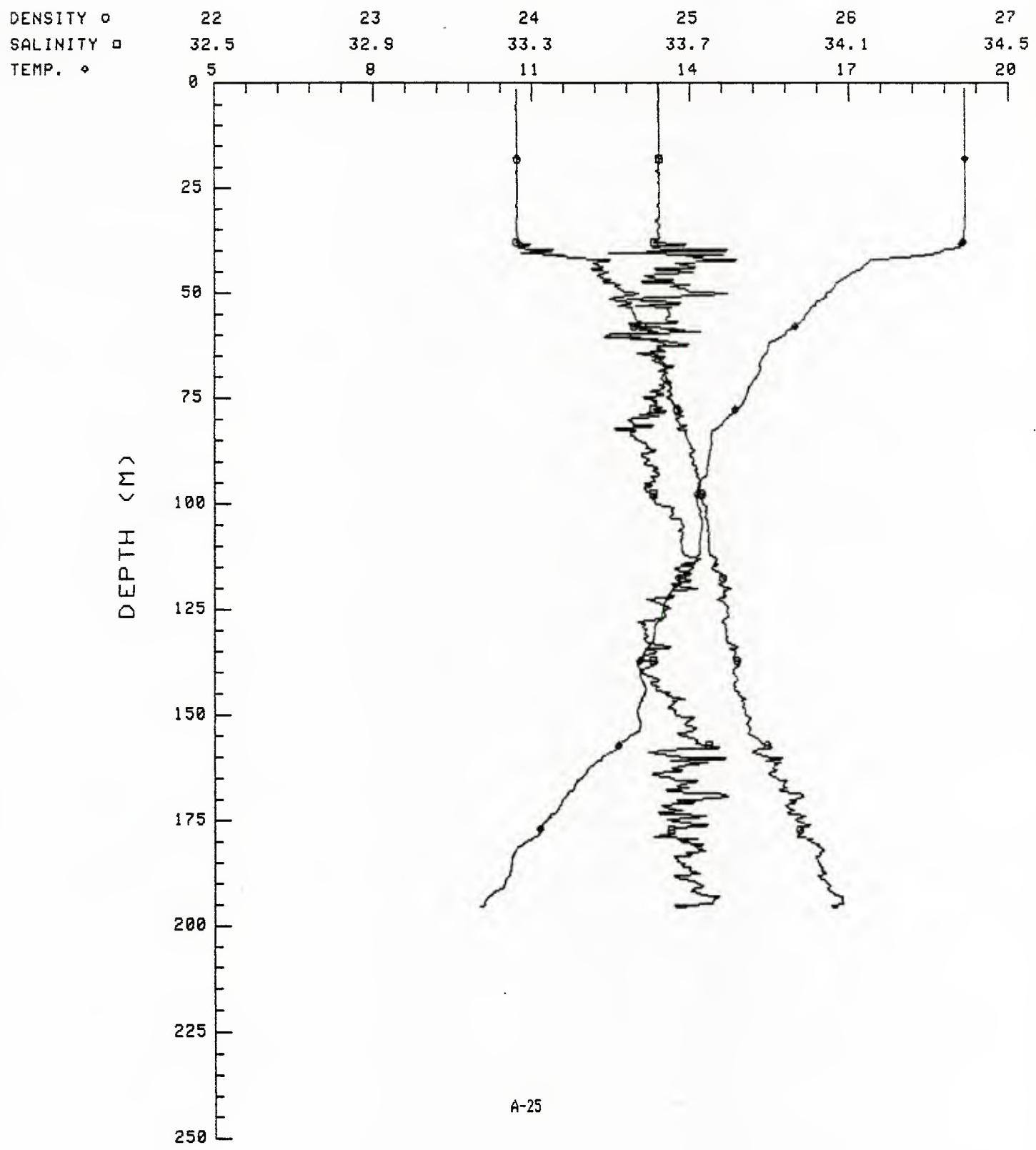
200

225

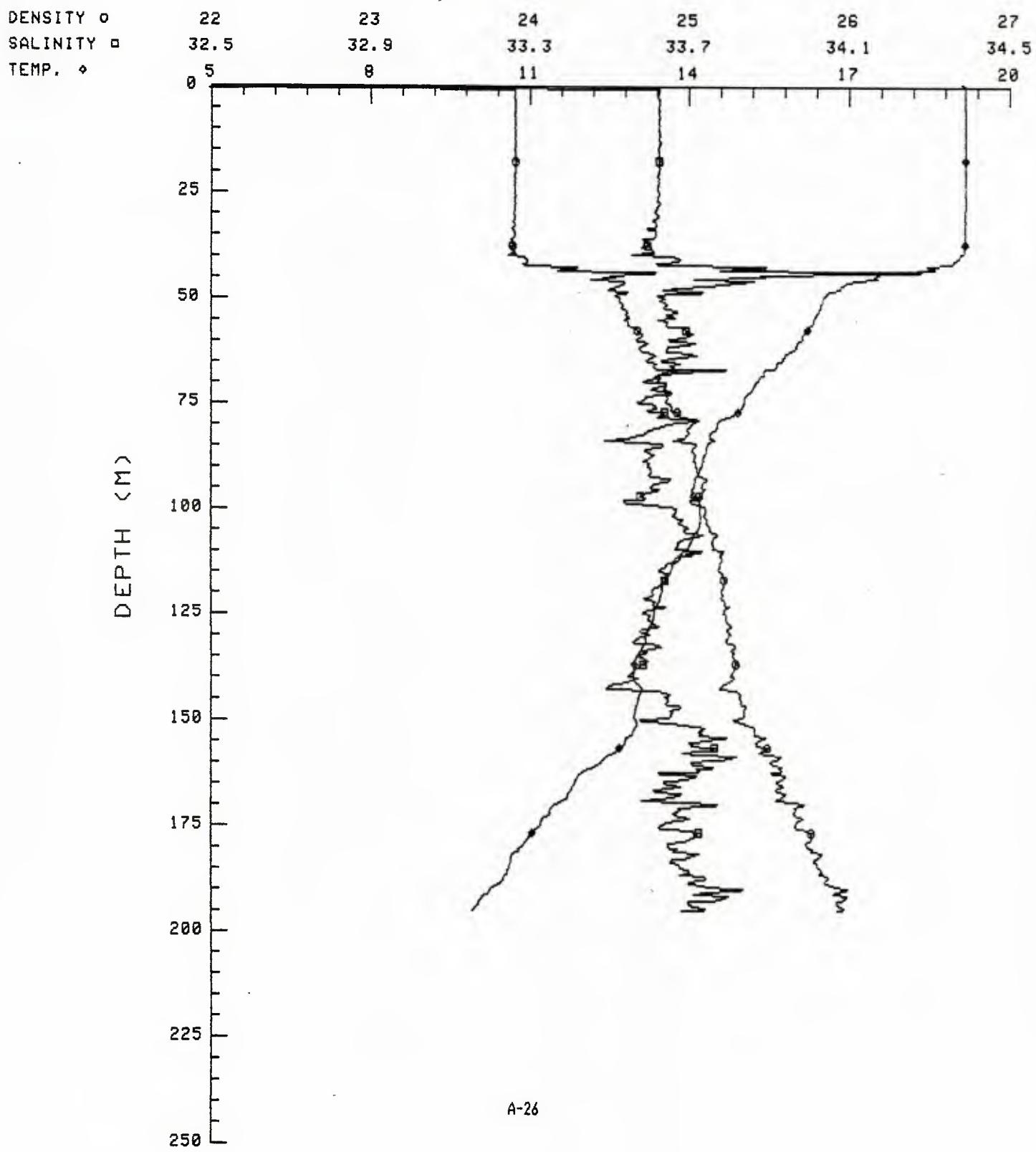
250



ODEX 3 STA 46 DN CAST 10-28-82 1857Z  
LATITUDE 34.3383N      LONGITUDE 130.4653W



ODEX 3 STA 46 UP CAST 10-20-82 1911Z  
LATITUDE 34.3303N      LONGITUDE 130.4653W



ODEX 3 STA 47 DN CAST 10-22-82 2055Z  
LATITUDE 34.123N      LONGITUDE 134.223W

DENSITY  $\sigma$

22            23            24            25            26            27

SALINITY  $\sigma$

32.5

32.9

33.3

33.7

34.1

34.5

TEMP.  $\phi$

5

8

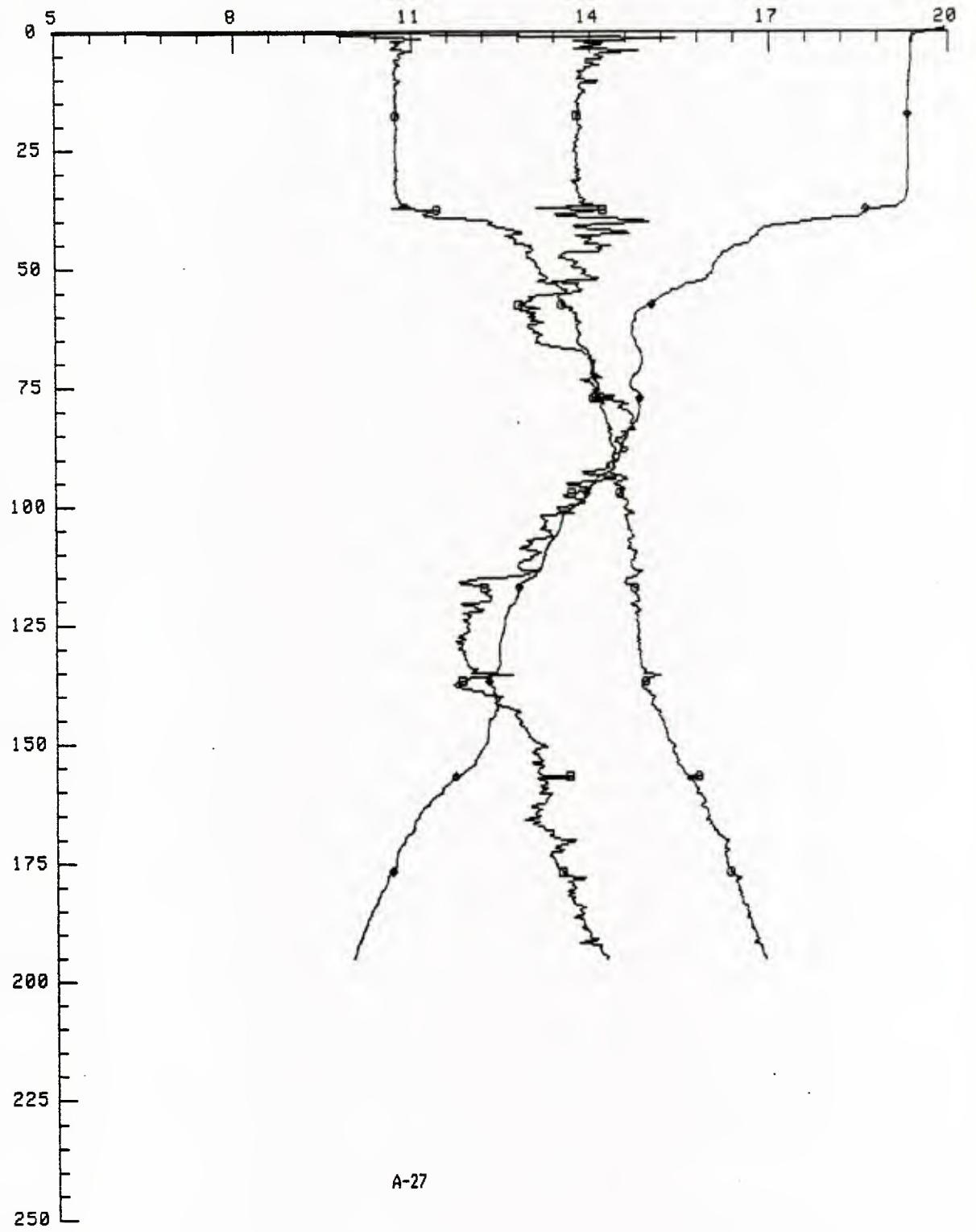
11

14

17

20

DEPTH (M)



ODEX 3 STA 47 UP CAST 10-22-82 2129Z

LATITUDE 34.1231N

LONGITUDE 134.2236W

DENSITY  $\sigma$

22

23

24

25

26

27

SALINITY  $\sigma$

32.5

32.9

33.3

33.7

34.1

34.5

TEMP.  $\phi$

5

8

11

14

17

20

DEPTH (M)

25

50

75

100

125

150

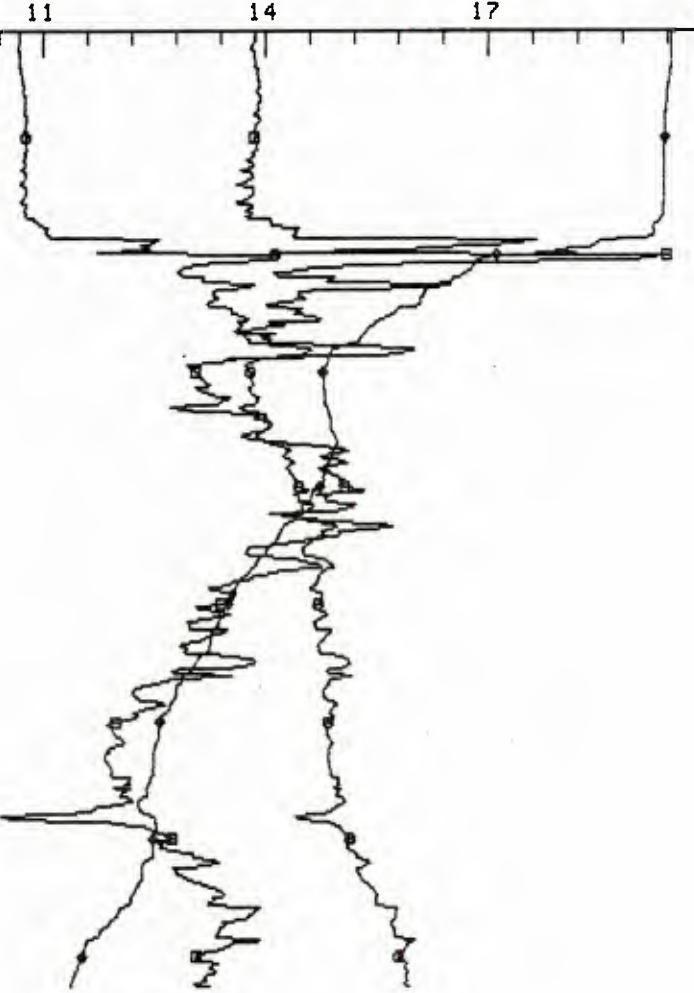
175

200

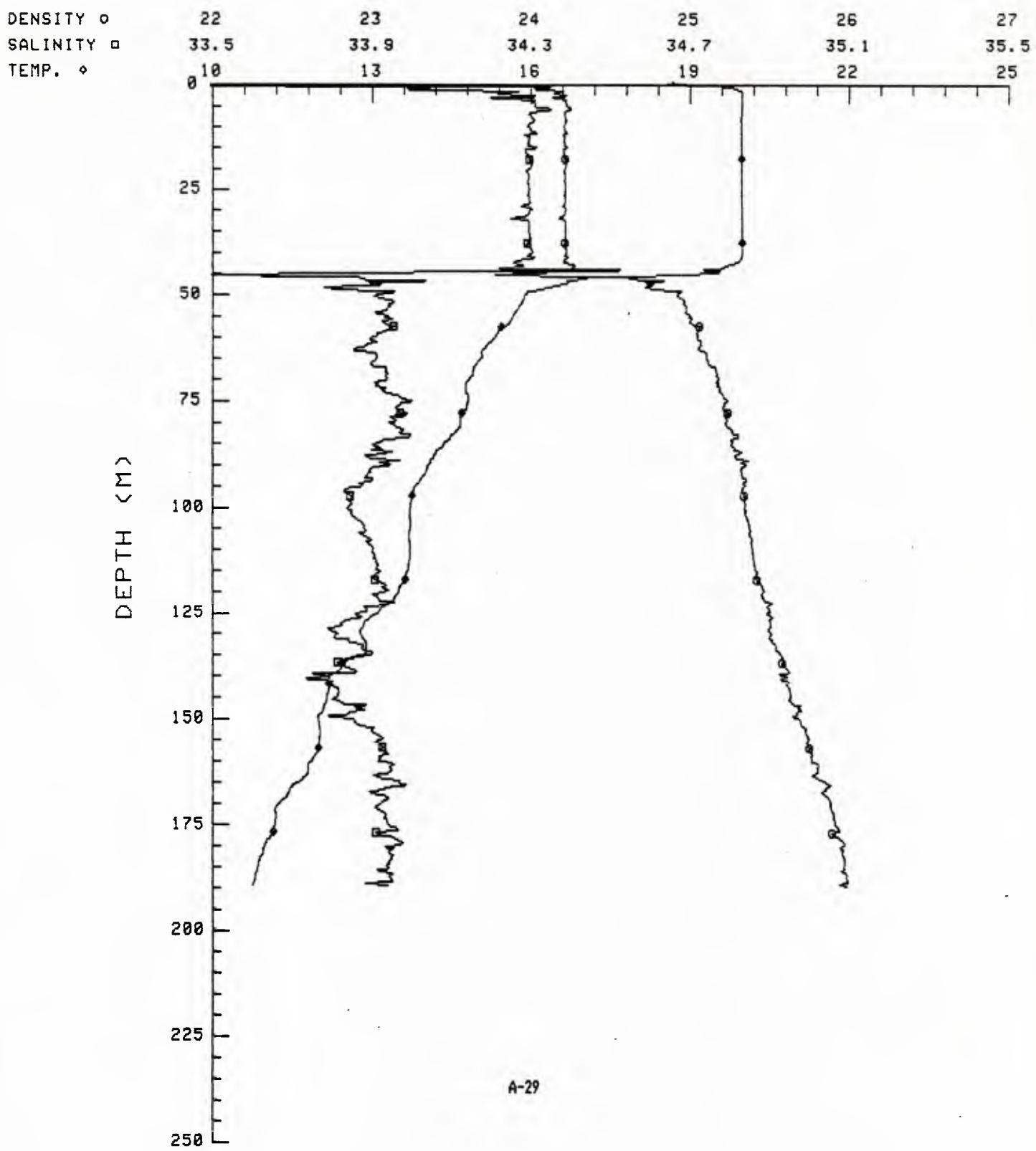
225

250

% OF SURFACE  
IRRADIANCE



ODEX 3 STA 50 DN CAST 10-25-82 2017Z  
LATITUDE 33.5870N      LONGITUDE 140.5130W



ODEX 3 STA 50 UP CAST 10-25-82 2046Z

LATITUDE 33.5878N

LONGITUDE 148.5130W

DENSITY  $\sigma$

22

23

24

25

26

27

SALINITY  $\sigma$

33.5

33.9

34.3

34.7

35.1

35.5

TEMP.  $\phi$

7

10

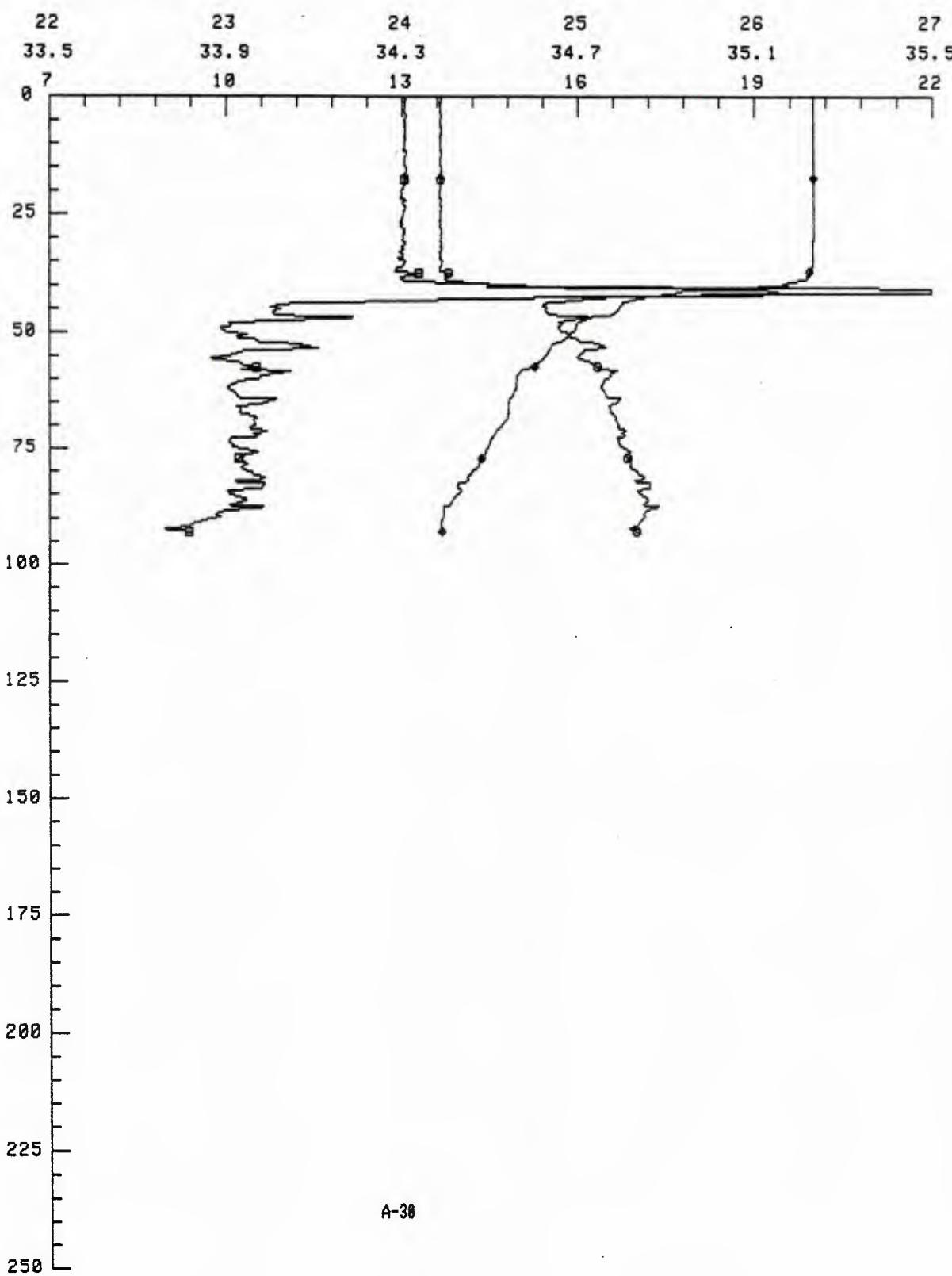
13

16

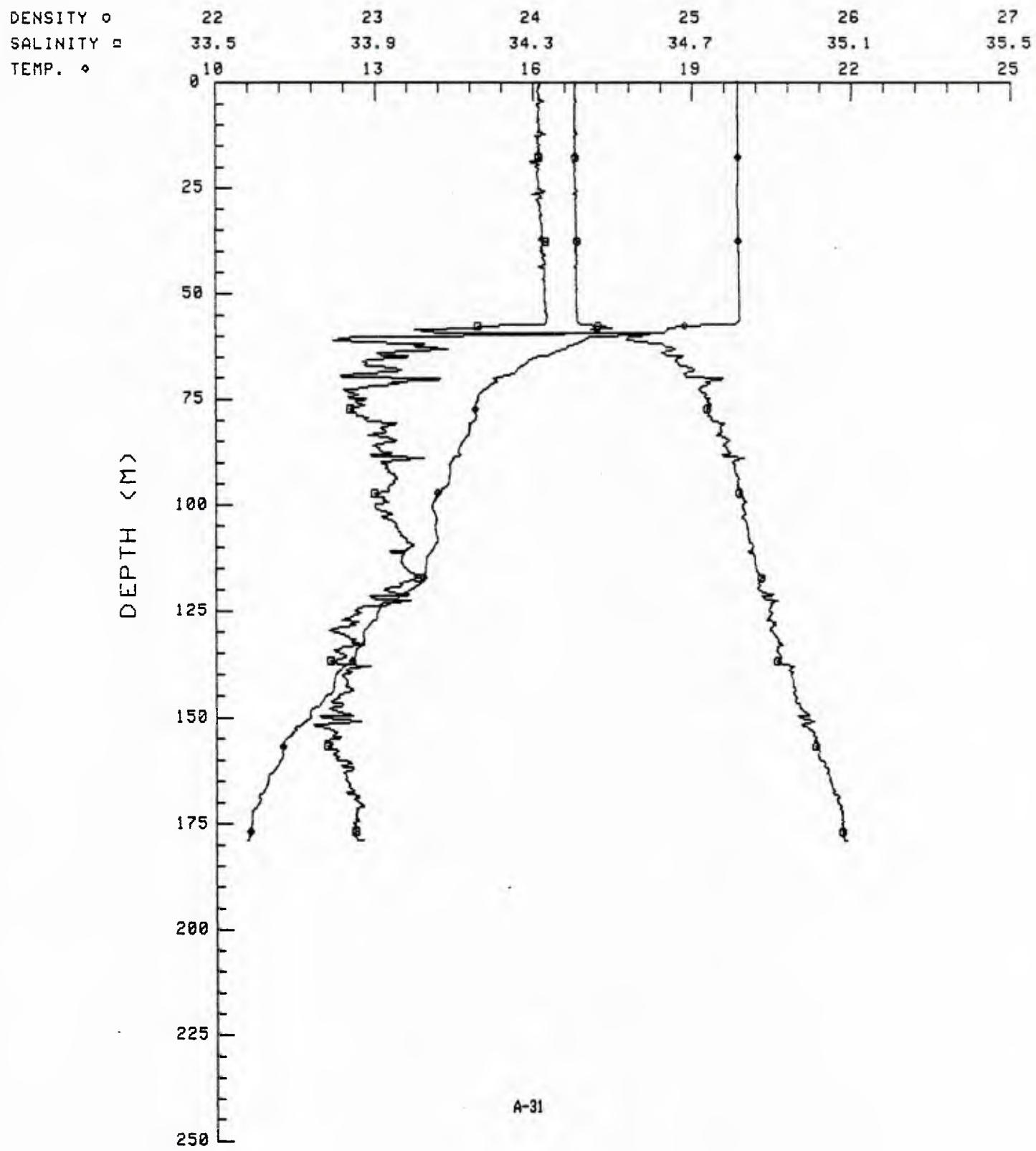
19

22

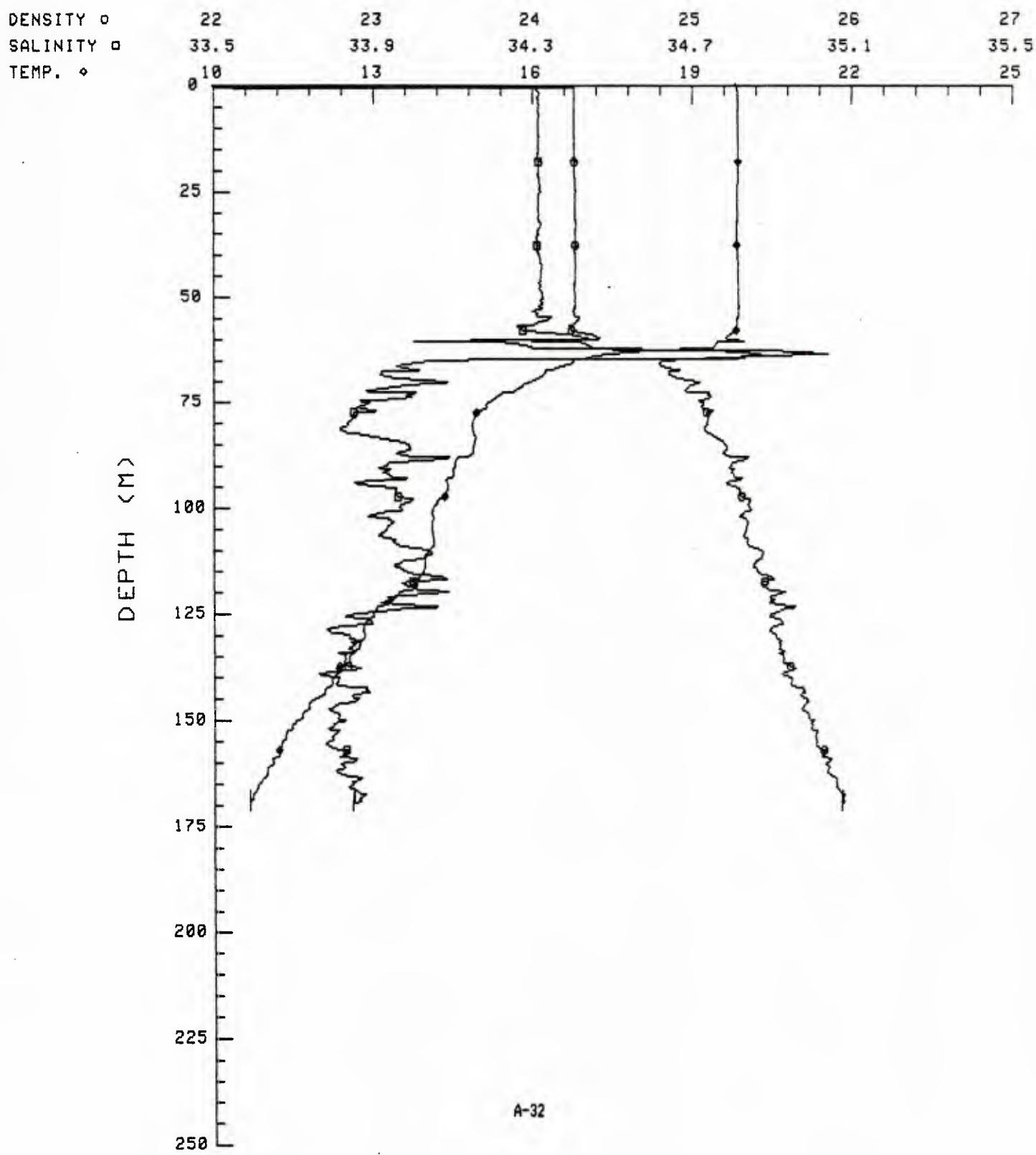
DEPTH (M)



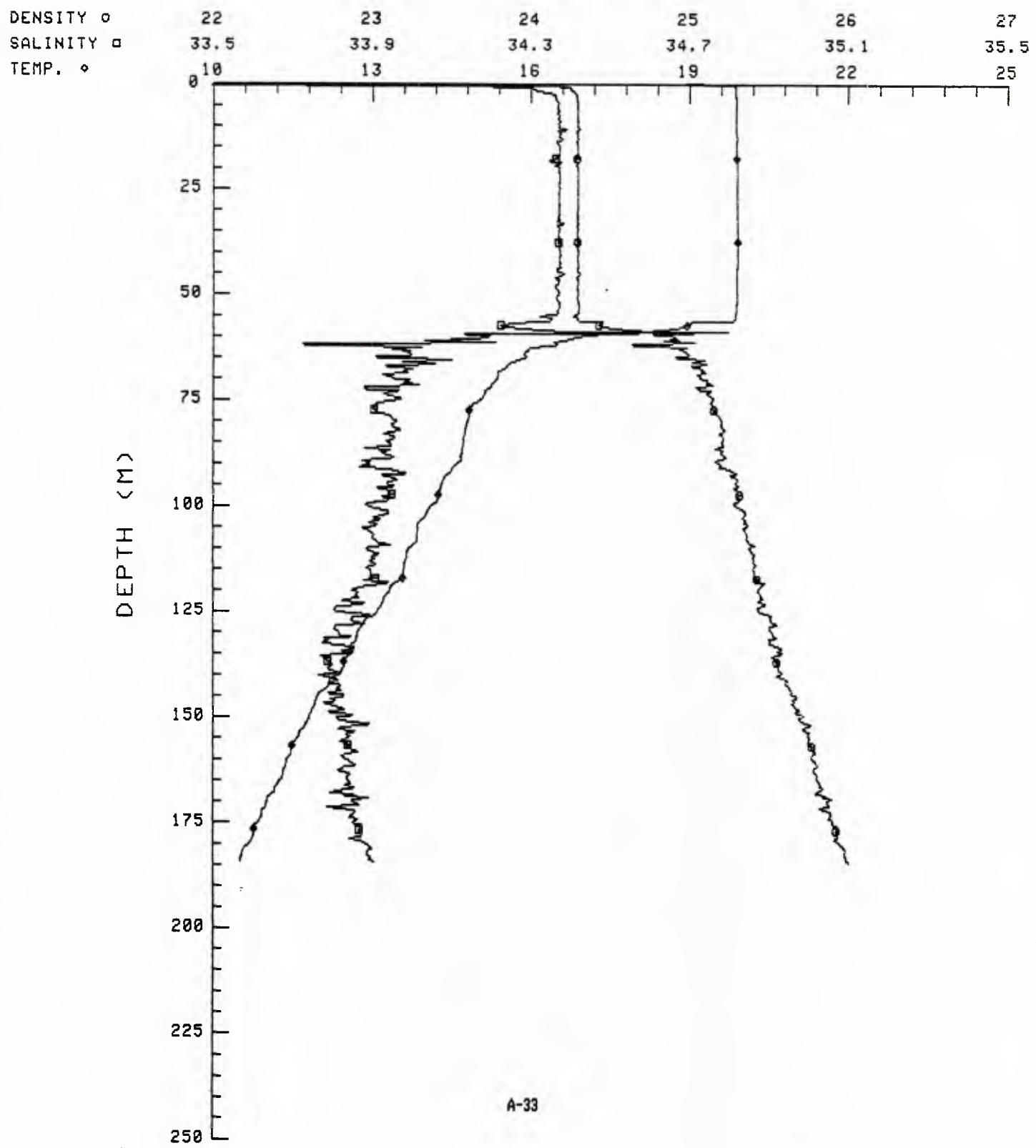
ODEX 3 STA 51 DN CAST 10-26-82 0027Z  
LATITUDE 34.8128N      LONGITUDE 141.0898W



ODEX 3 STA 51 UP CAST 10-26-82 00442  
LATITUDE 34.8128N      LONGITUDE 141.0898W



ODEX 3 STA 52 DN CAST 18-26-82 1101Z  
LATITUDE 33.4478N      LONGITUDE 141.5325W



DDEX 3 STA 52A UP CAST 10-26-82 1210Z

LATITUDE 33.4470N

LONGITUDE 141.5325W

DENSITY  $\sigma$

22

23

24

25

26

27

SALINITY  $\sigma$

33.5

33.9

34.3

34.7

35.1

35.5

TEMP.  $\diamond$

10

13

16

19

22

25

DEPTH (M)

0

25

50

75

100

125

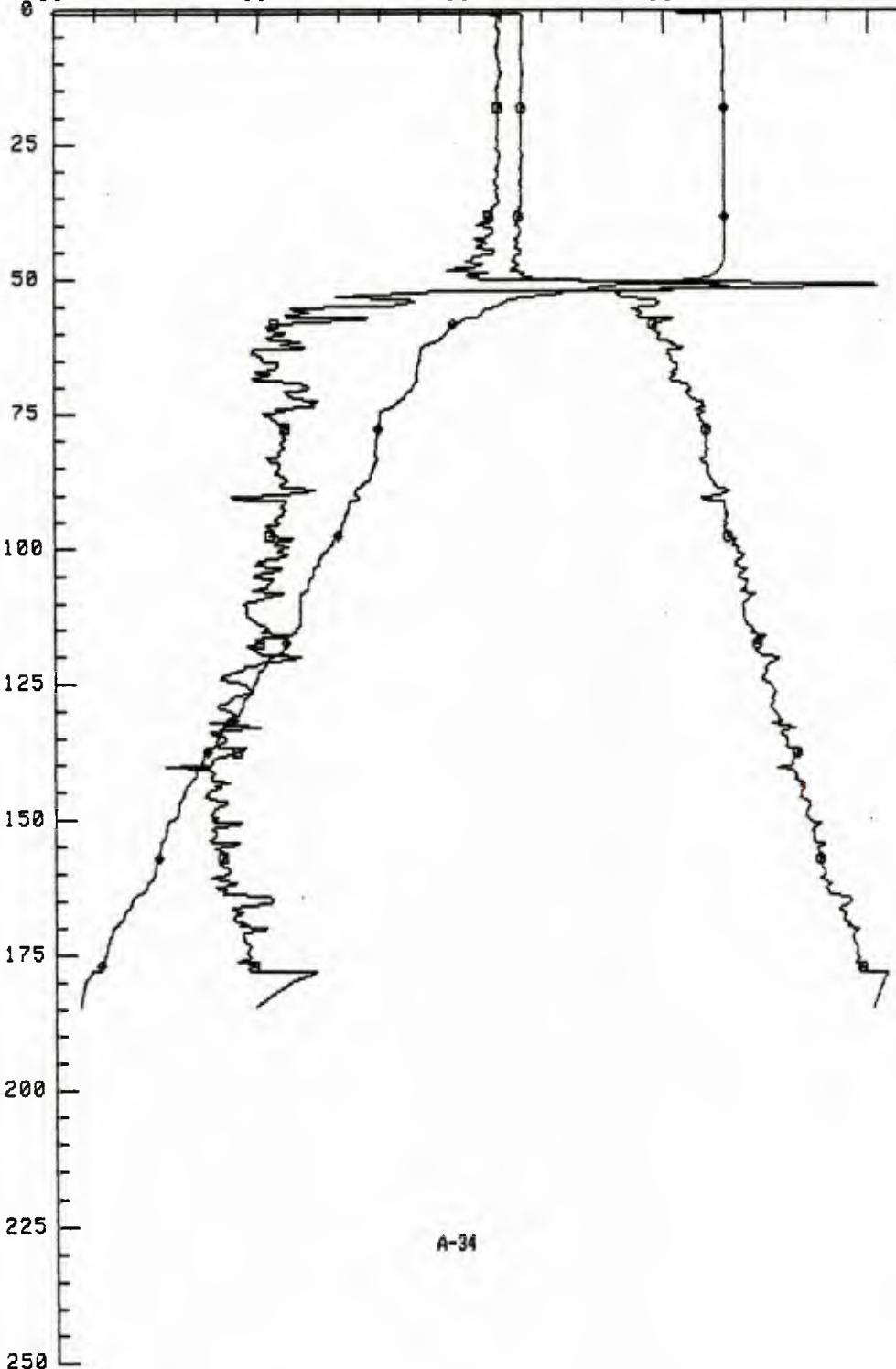
150

175

200

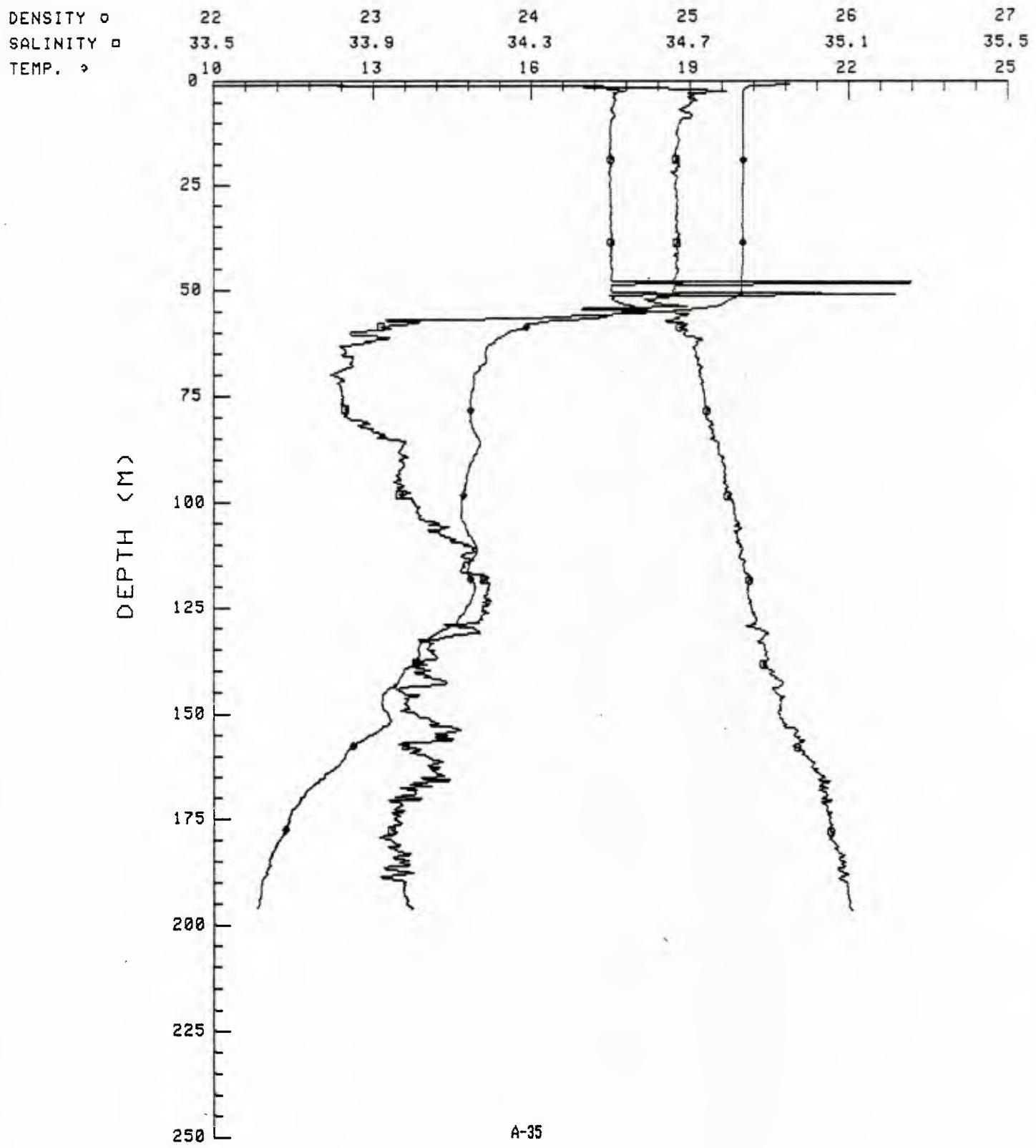
225

250

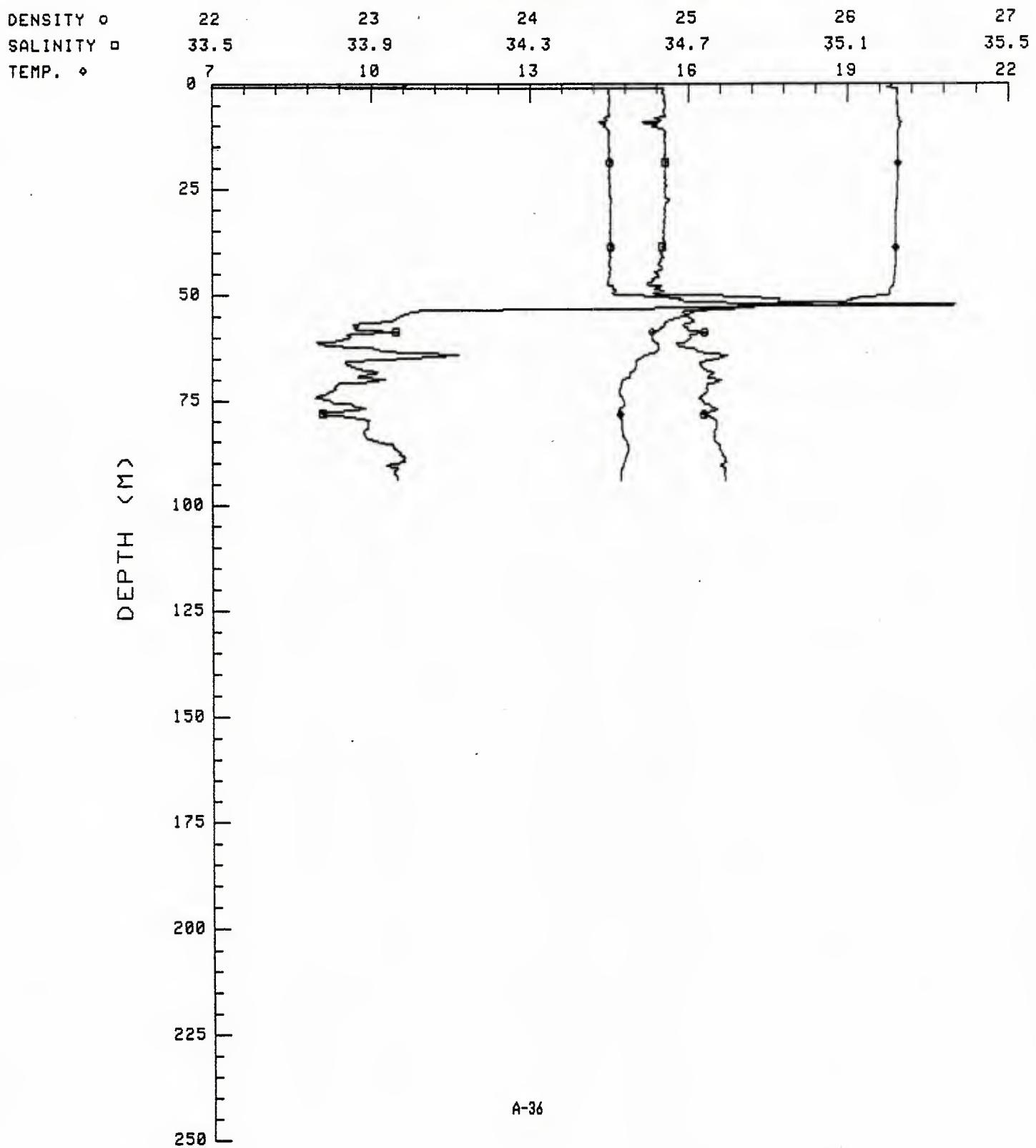


A-34

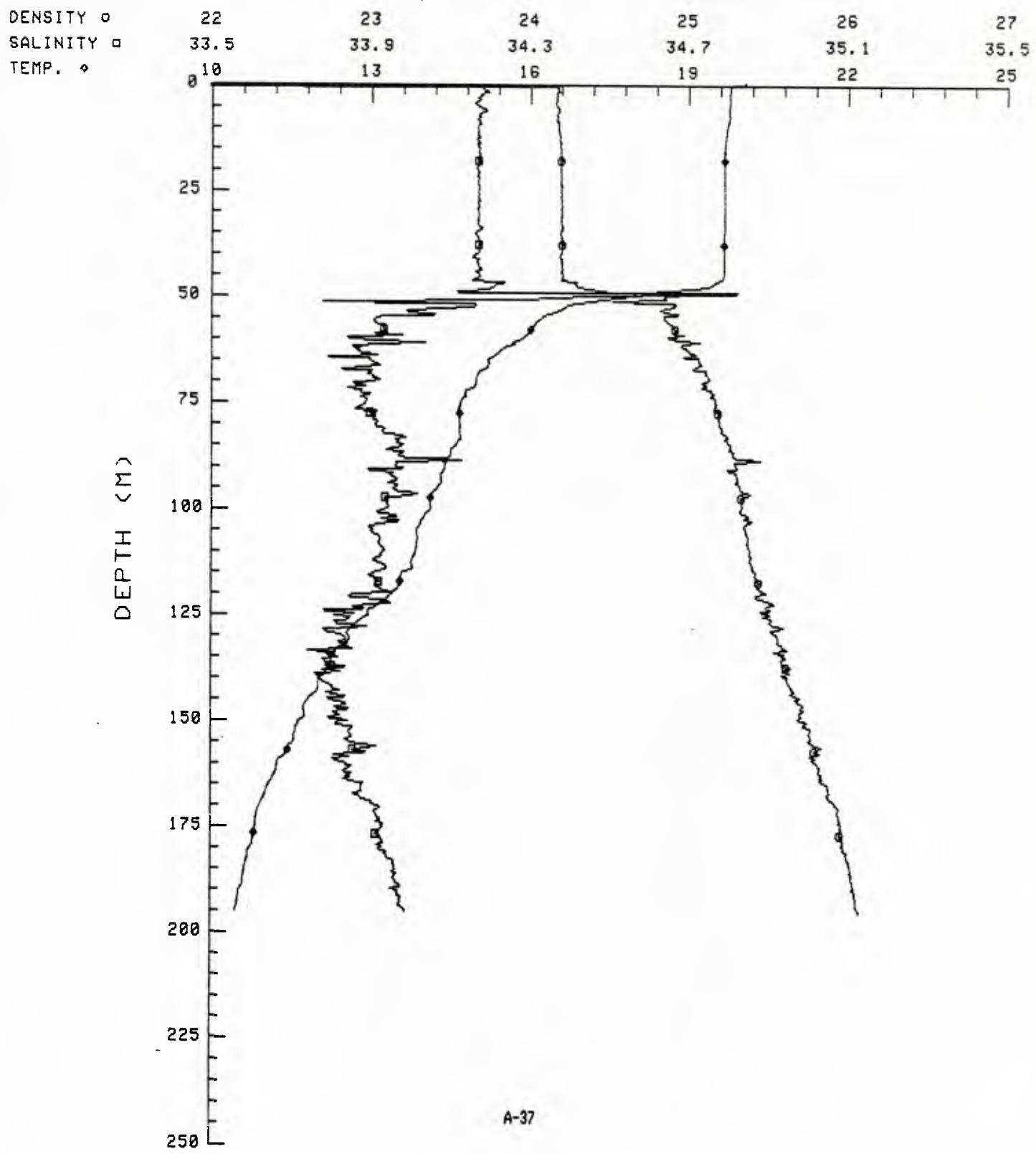
ODEX 3 STA 58 DN CAST 10-27-82 2143Z  
LATITUDE 33.5810N LONGITUDE 142.8630W



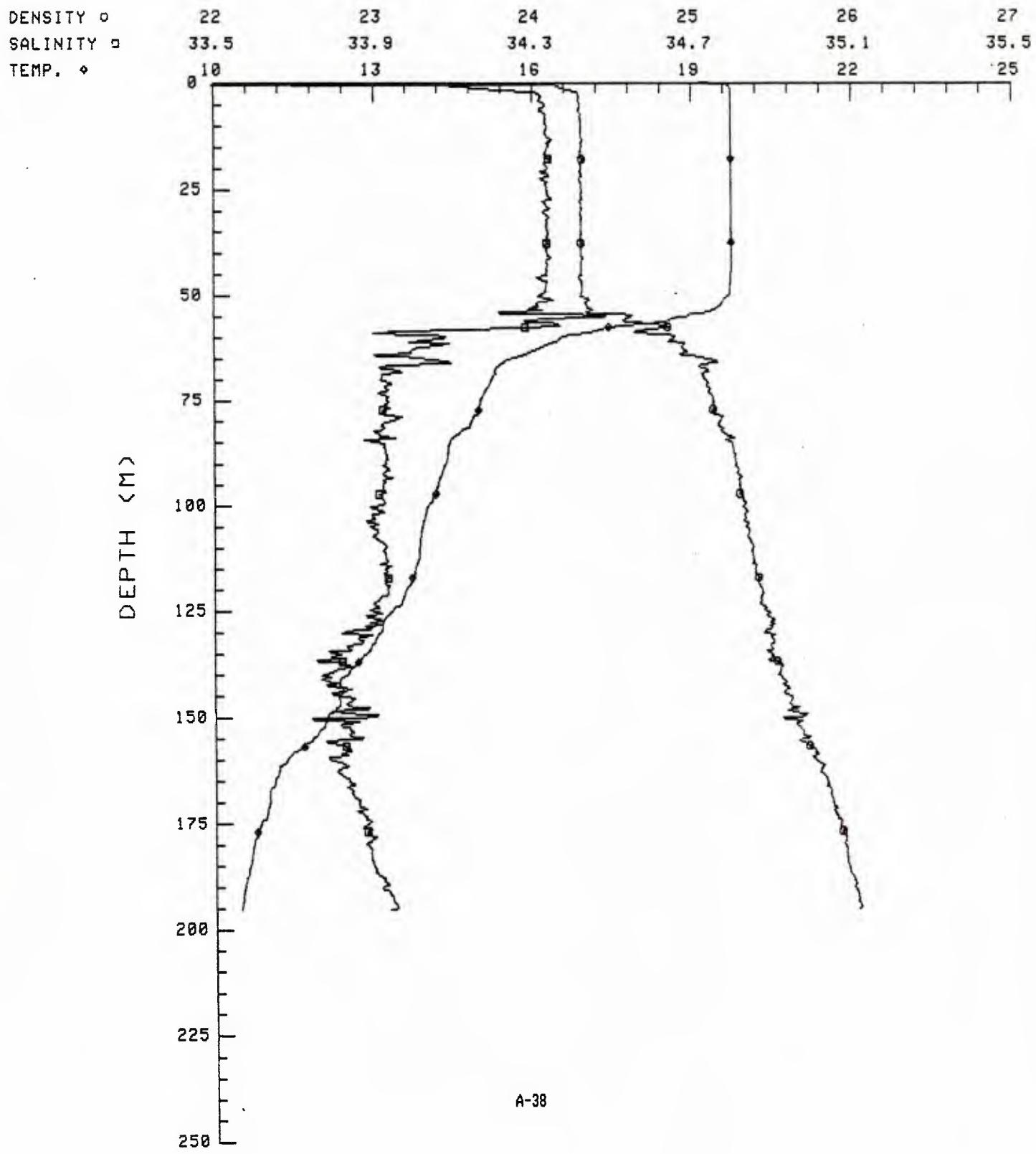
ODEX 3 STA 58 UP CAST 10-27-82 2205Z  
LATITUDE 33.5810N      LONGITUDE 142.0630W



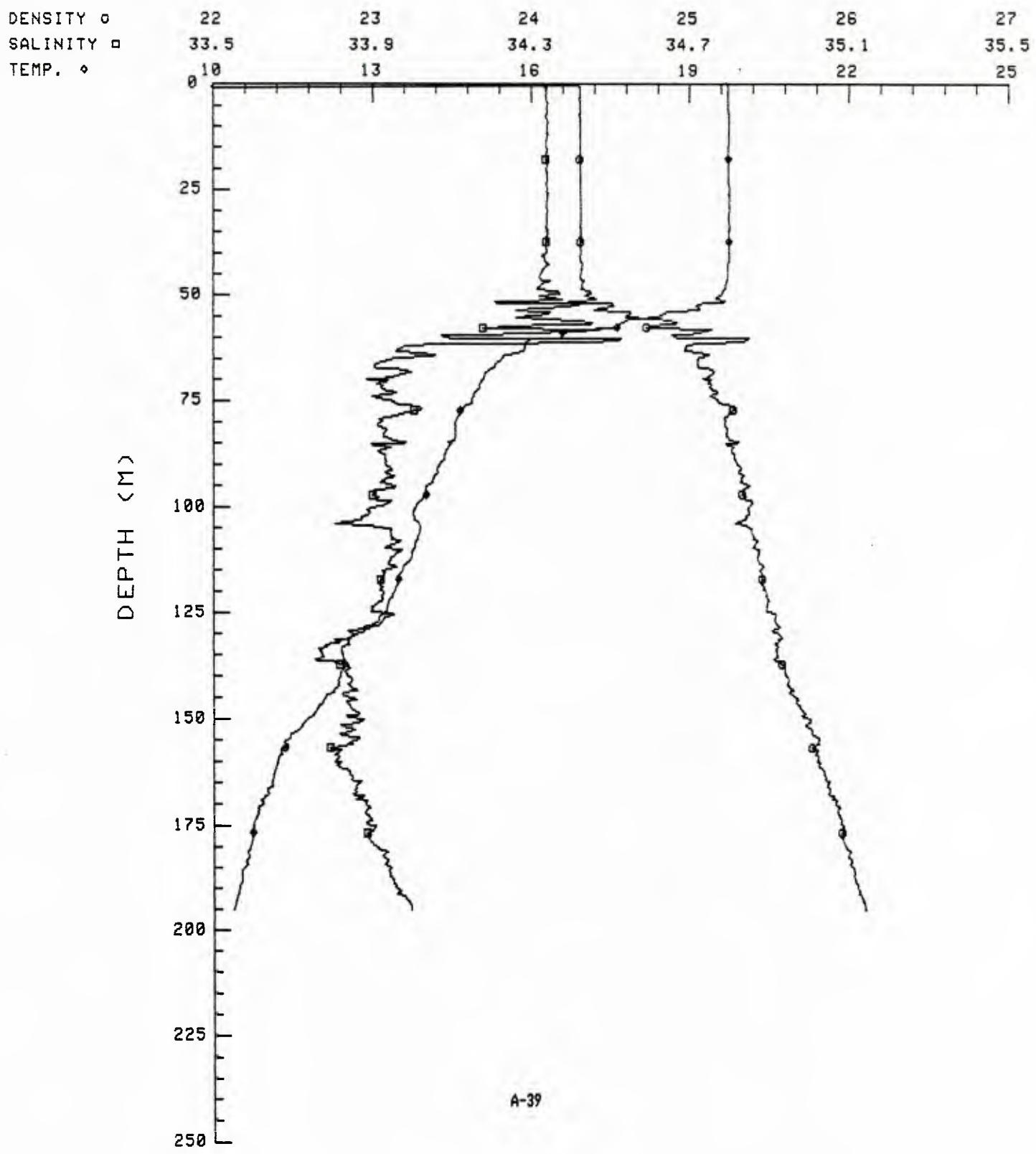
ODEX 3 STA 63 DN CAST 10-28-82 2213Z  
LATITUDE 33.4470N      LONGITUDE 141.1760W



ODEX 3 STA 66 DN CAST 10-29-82 2055Z  
LATITUDE 33.3343N LONGITUDE 141.3892W



ODEX 3 STA 66 UP CAST 10-29-82 2119Z  
LATITUDE 33.3343N      LONGITUDE 141.3892W



ODDEX 3 STA 72 DN CAST 10-31-82 1844Z

LATITUDE 31.2648N

LONGITUDE 141.3676W

DENSITY  $\sigma$

22

23

24

25

26

27

SALINITY  $\sigma$

33.5

33.9

34.3

34.7

35.1

35.5

TEMP.  $\diamond$

10

13

16

19

22

25

DEPTH (M)

25

50

75

100

125

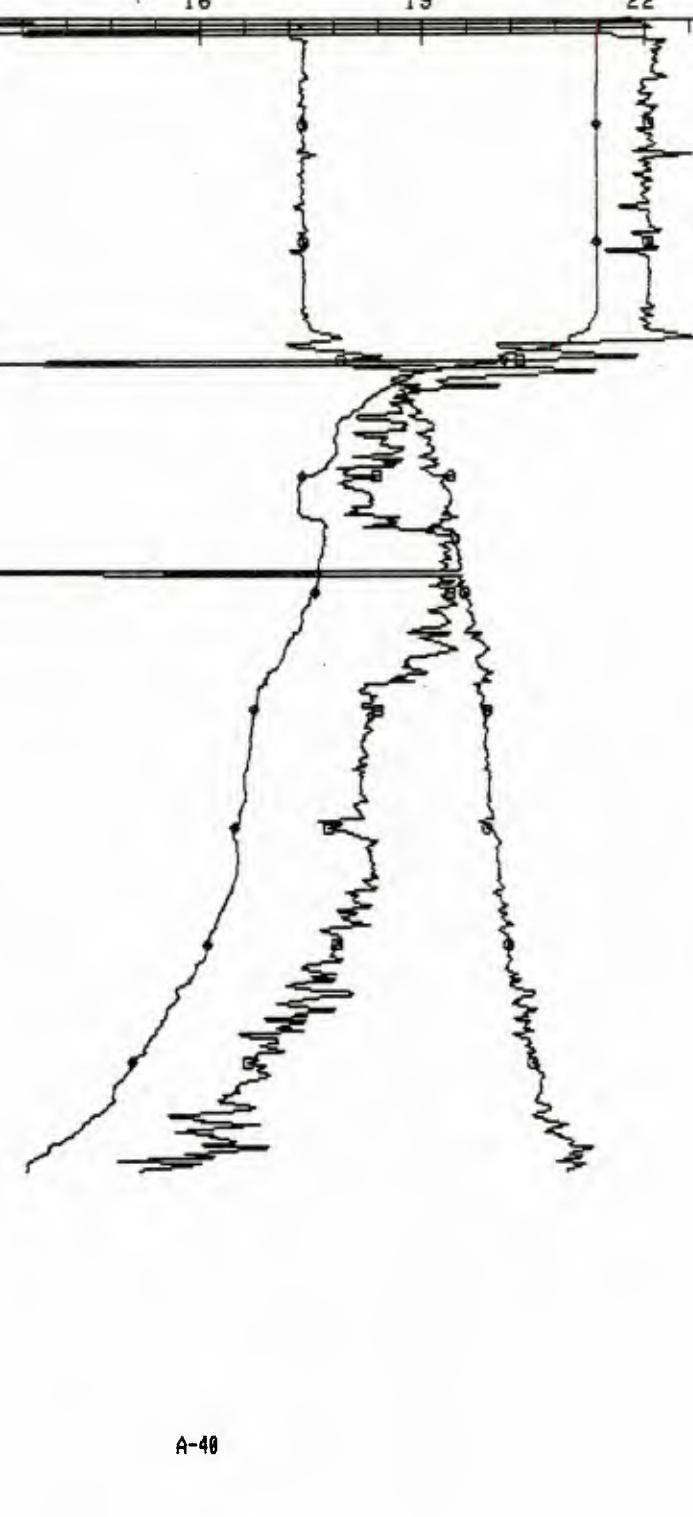
150

175

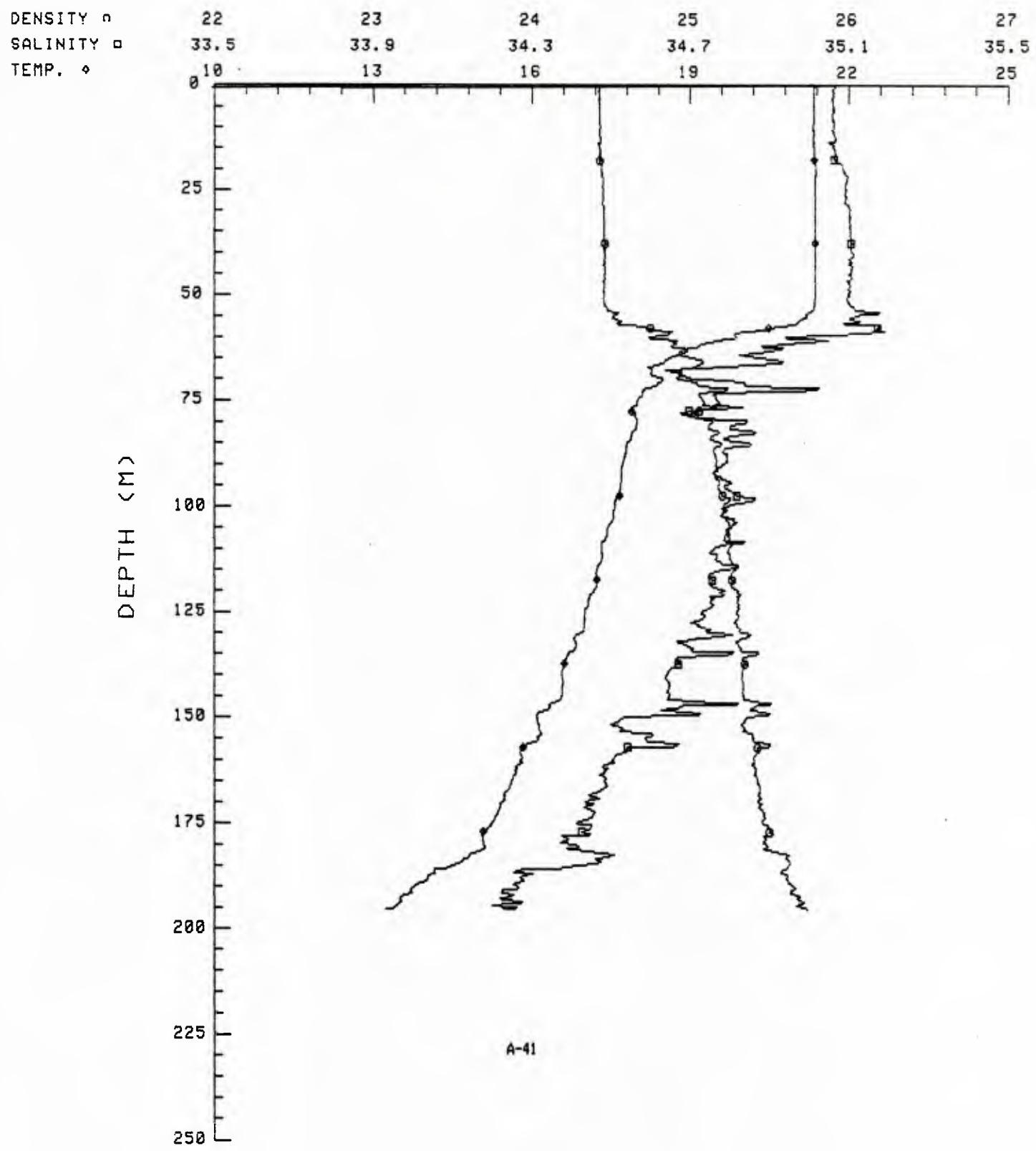
200

225

250

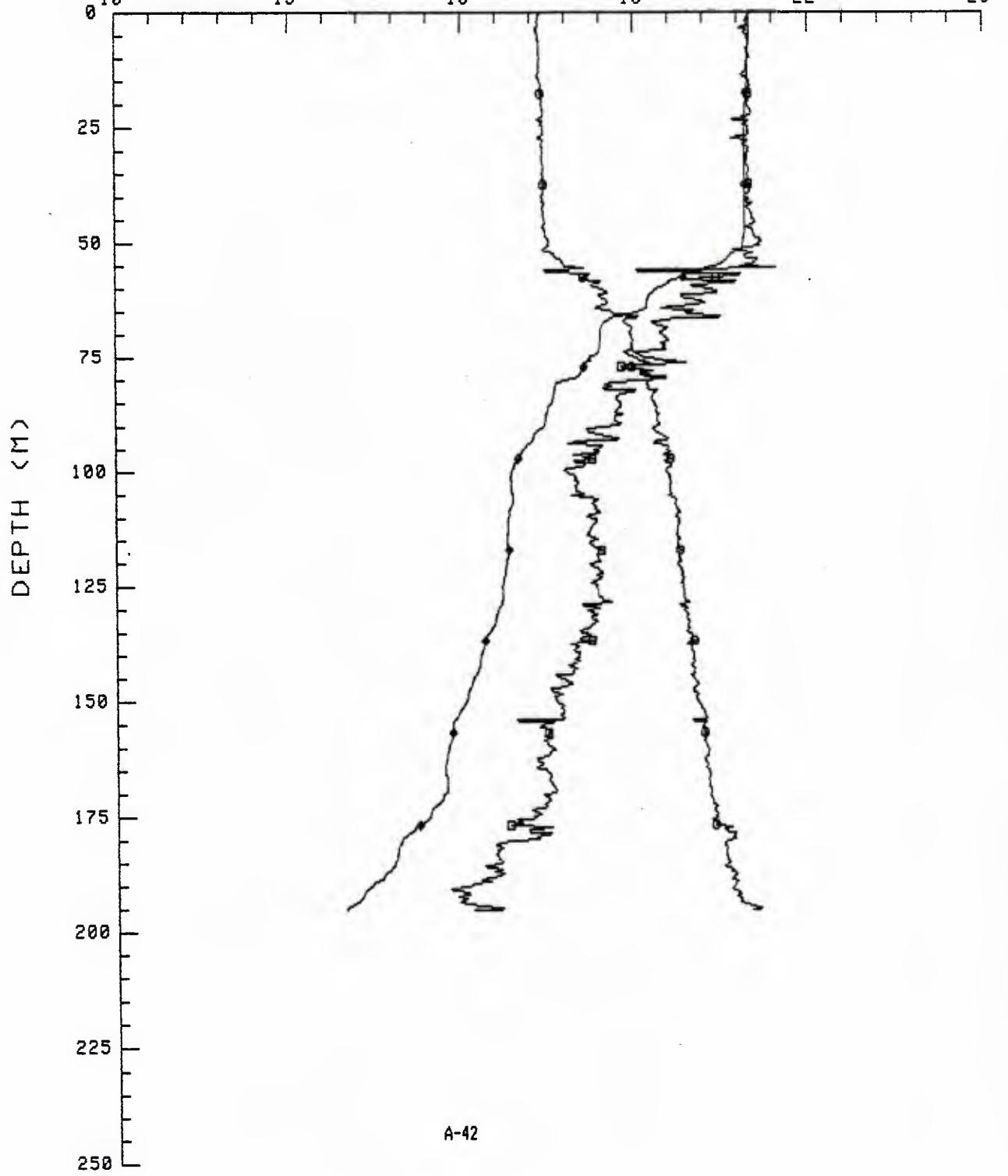


ODEX 3 STA 72 UP CAST 10-31-82 19:07  
LATITUDE 31.2648N LONGITUDE 141.3676W

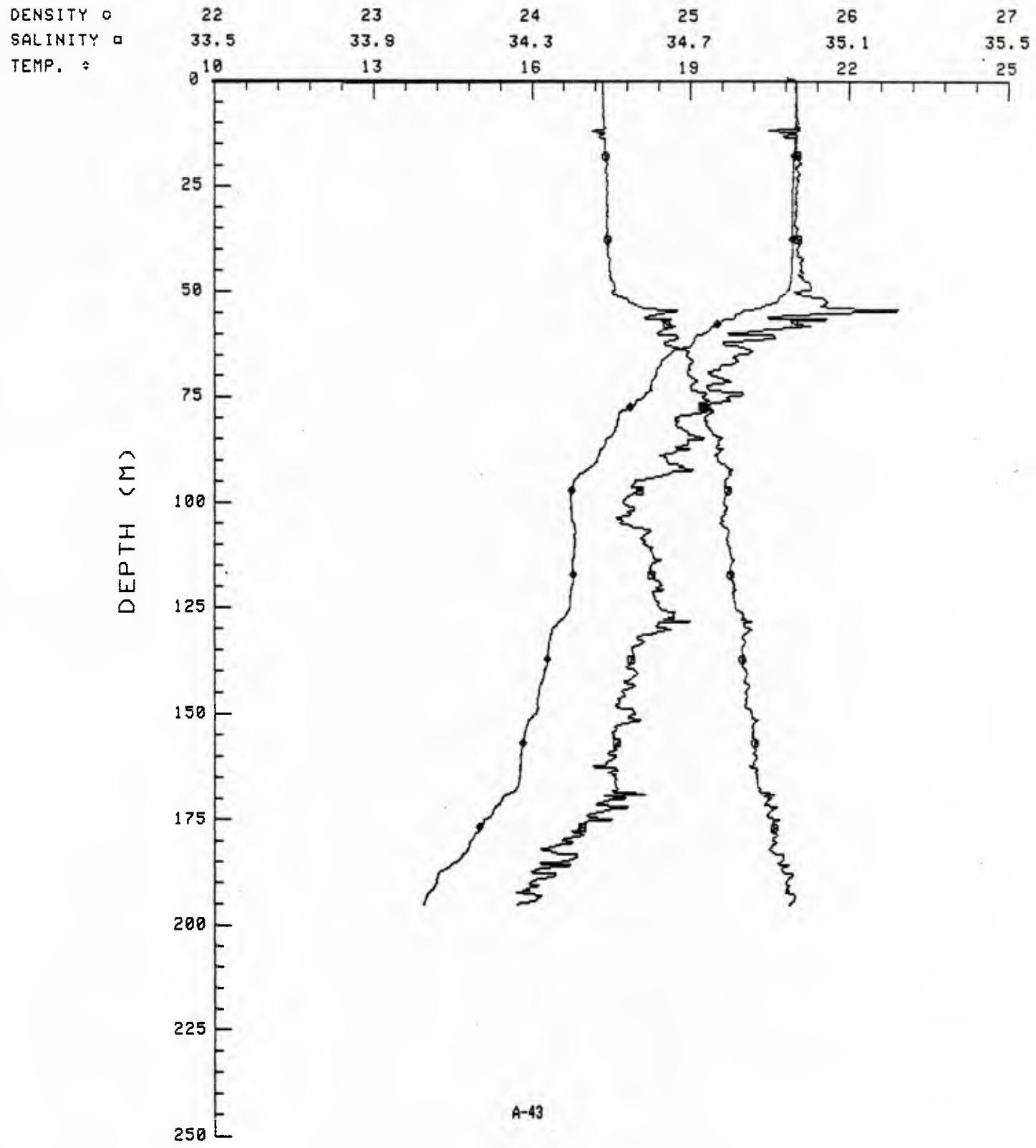


ODEX 3 STA 73 DN CAST 10-31-82 2352Z  
LATITUDE 31.8260N      LONGITUDE 141.3490W

DENSITY  $\sigma$     22                  23                  24                  25                  26                  27  
SALINITY  $\sigma$     33.5                  33.9                  34.3                  34.7                  35.1                  35.5  
TEMP.  $^{\circ}$         10                  13                  16                  19                  22                  25

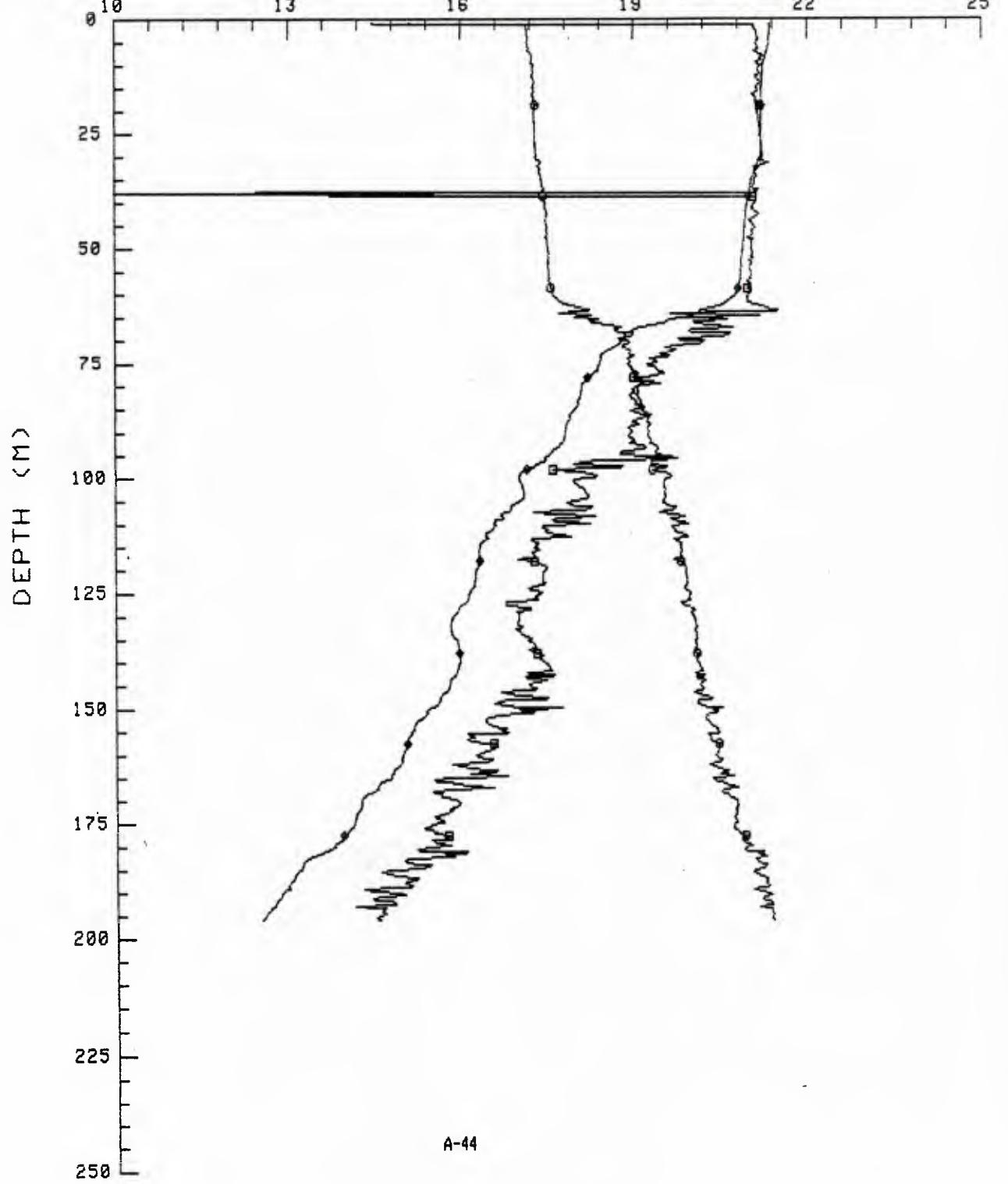


ODEX 3 STA 73 UP CAST 10-31-82 2359Z  
LATITUDE 31.8268N LONGITUDE 141.3490W



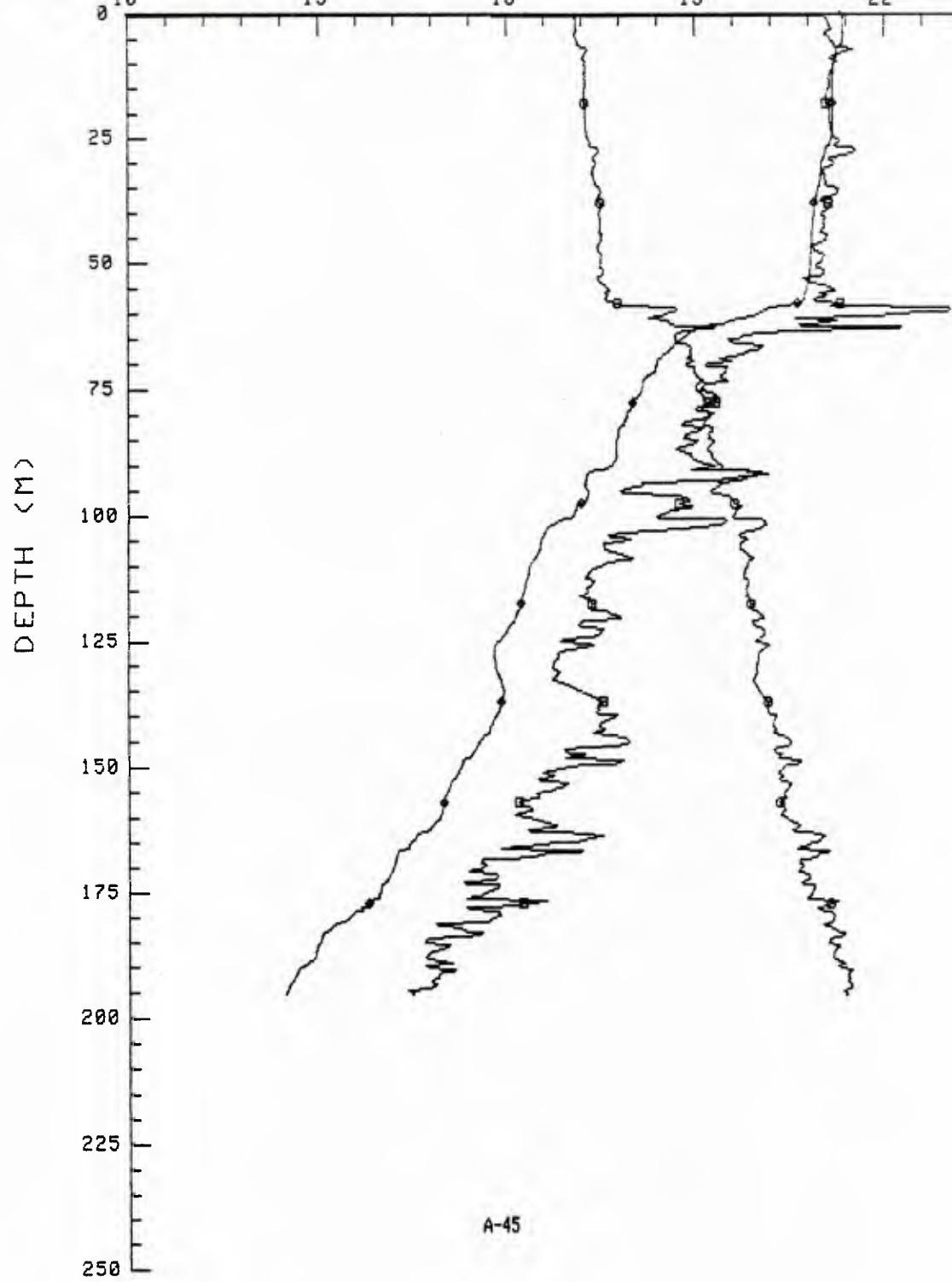
ODEX 3 STA 77B DN CAST 11-1-82 21:16  
LATITUDE 30.8210N      LONGITUDE 141.2210W

DENSITY  $\sigma$     22                  23                  24                  25                  26                  27  
SALINITY  $\sigma$     33.5                33.9                34.3                34.7                35.1                35.5  
TEMP.  $\diamond$         10                13                16                19                22                25

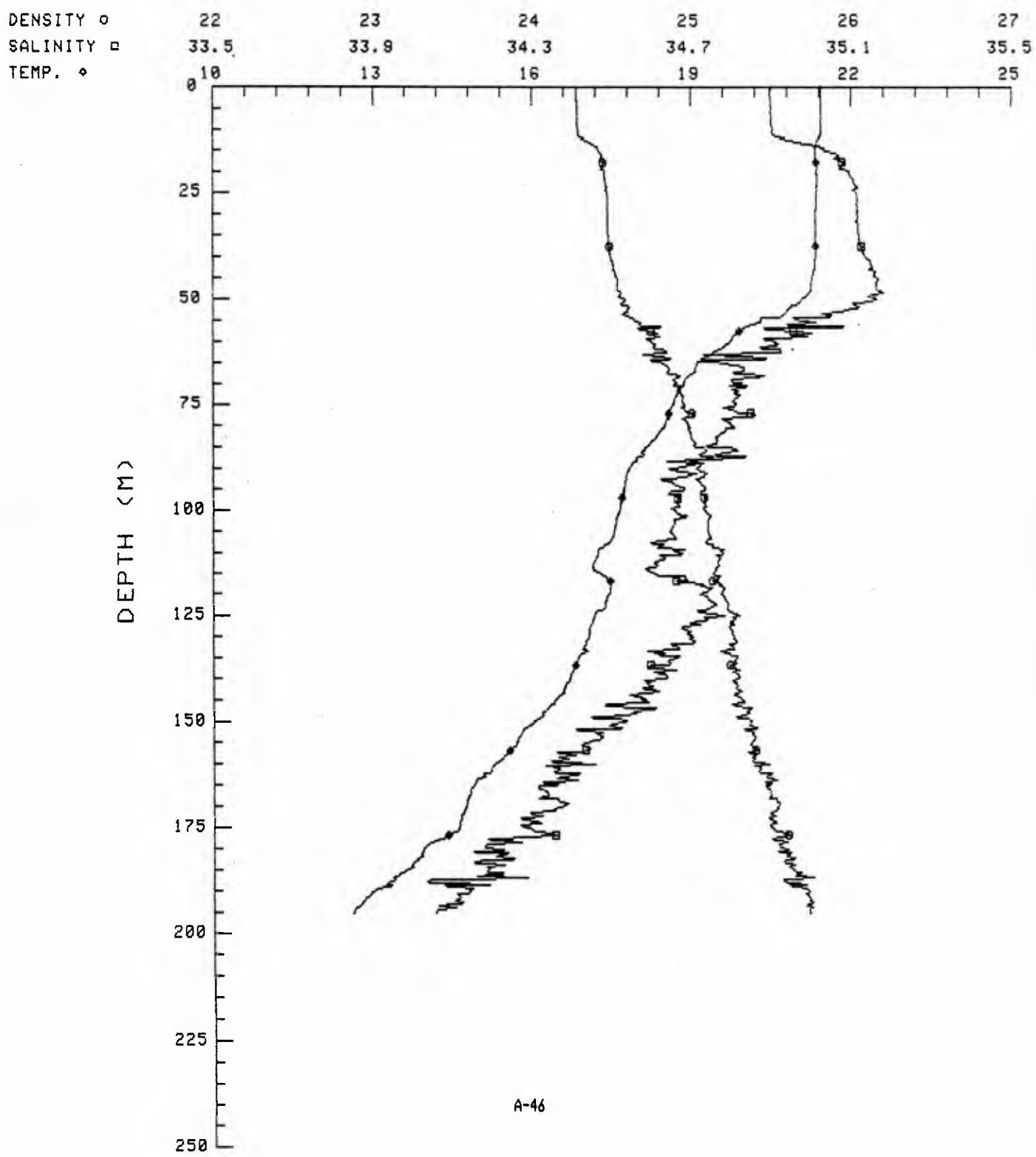


ODEX 3 STA 77B UP CAST 11-1-82 2133Z  
LATITUDE 30.0210N      LONGITUDE 141.2210W

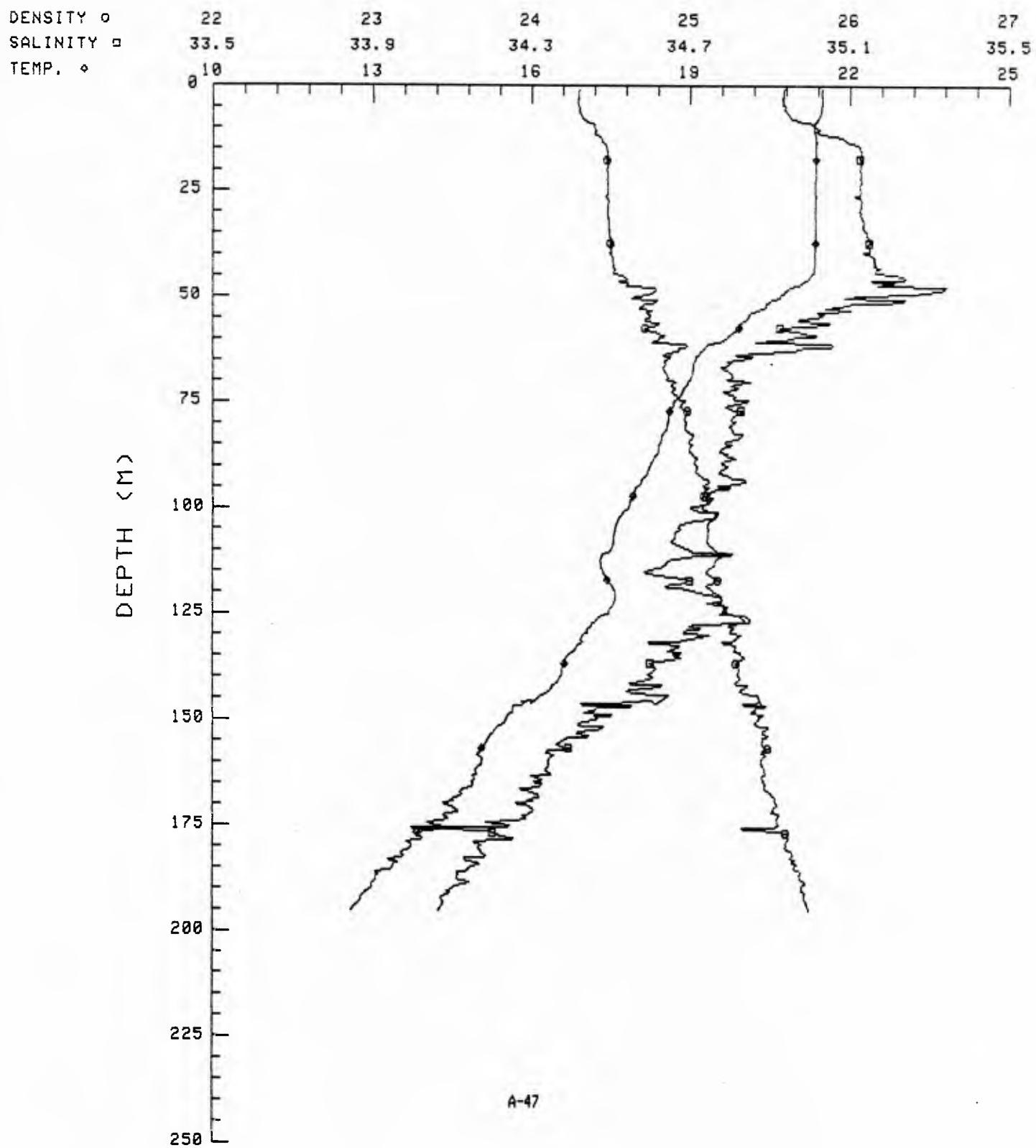
DENSITY  $\sigma$     22                23                24                25                26                27  
SALINITY  $\sigma$     33.5            33.9            34.3            34.7            35.1            35.5  
TEMP.  $\circ$         10                13                16                19                22                25



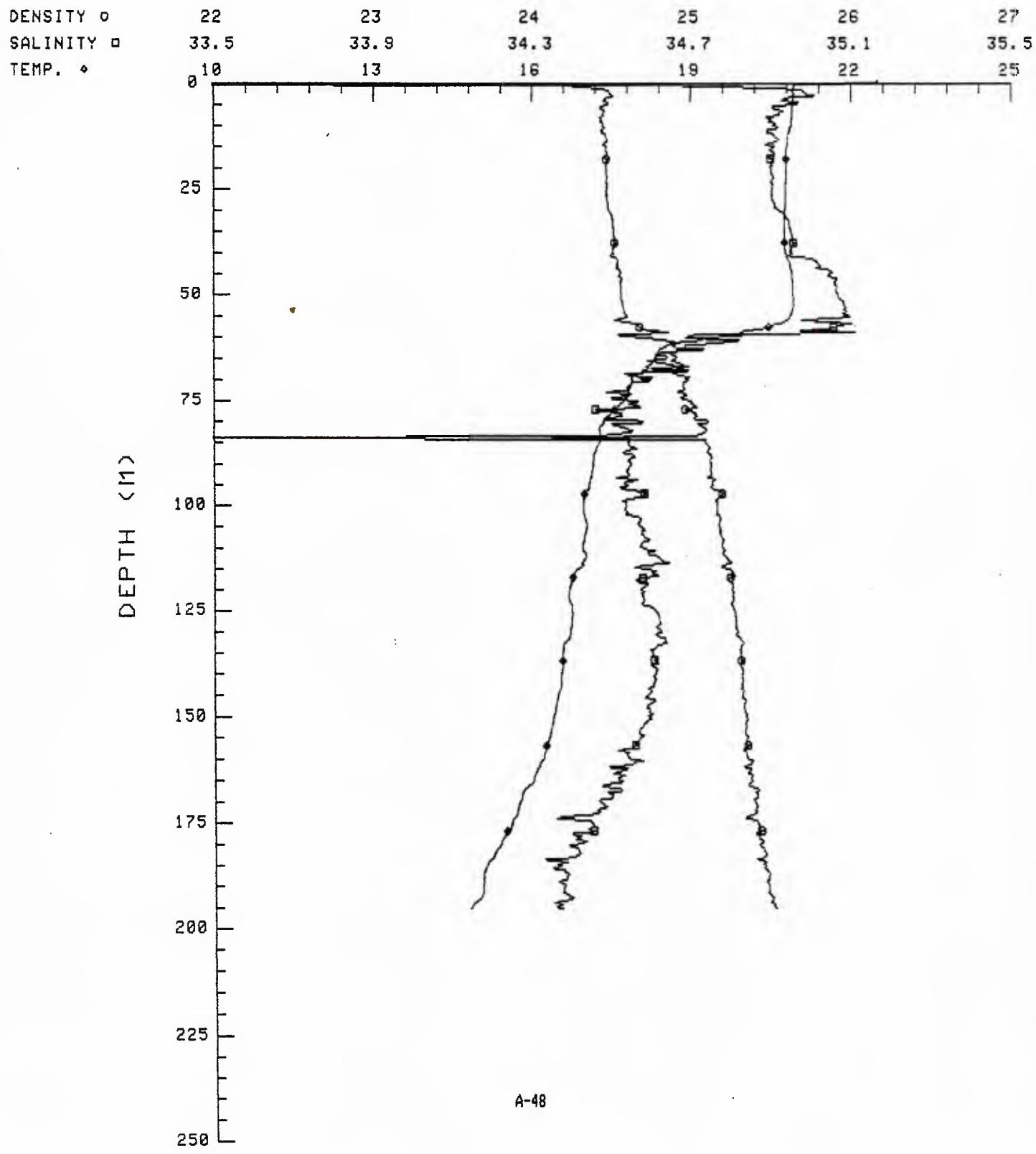
ODEX 3 STA 79 DN CAST 11-2-82 1845Z  
LATITUDE 38.5753N LONGITUDE 140.5419W



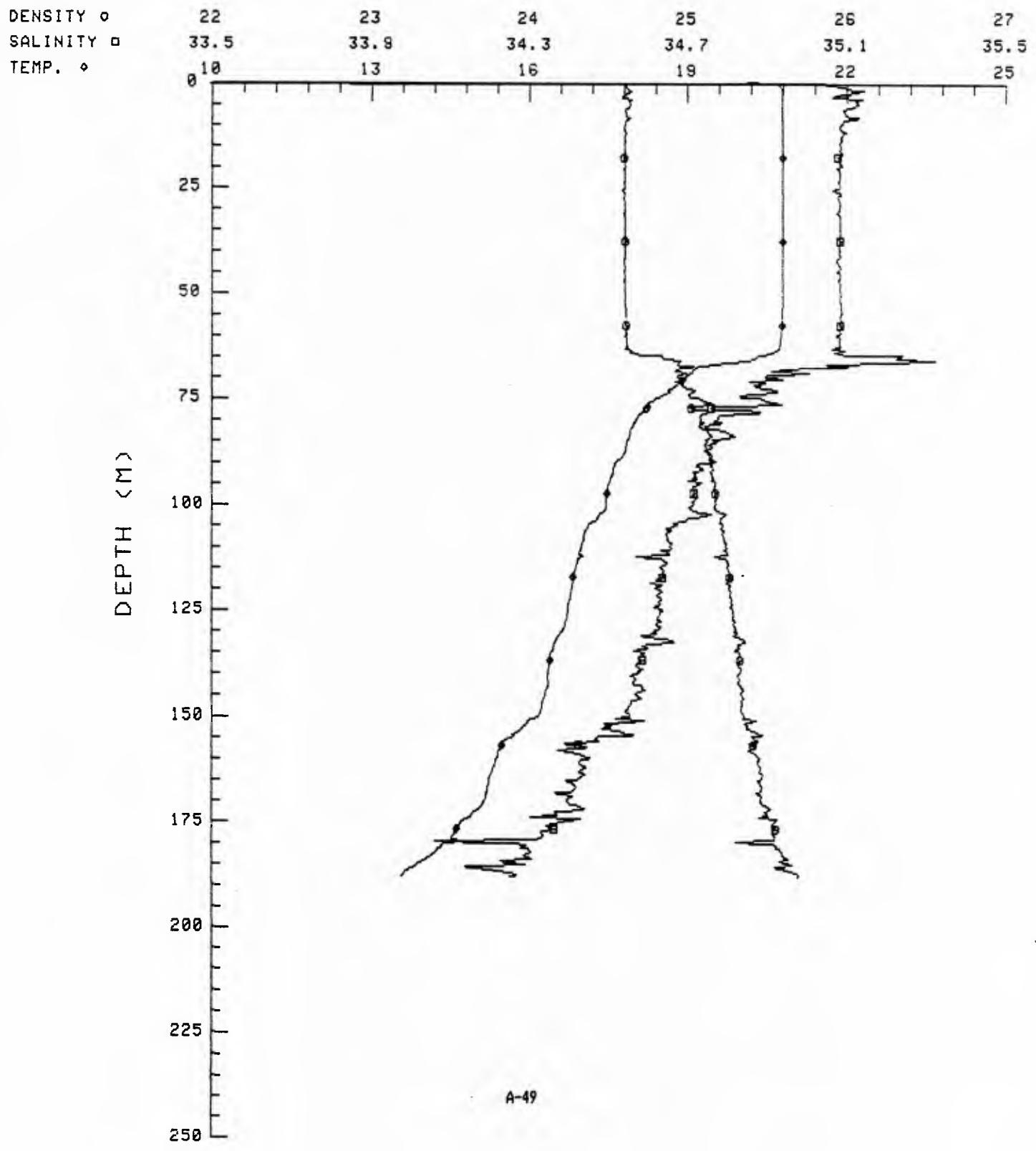
ODEX 3 STA 79 UP CAST 11-2-82 1928Z  
LATITUDE 38.5753N LONGITUDE 140.5419W



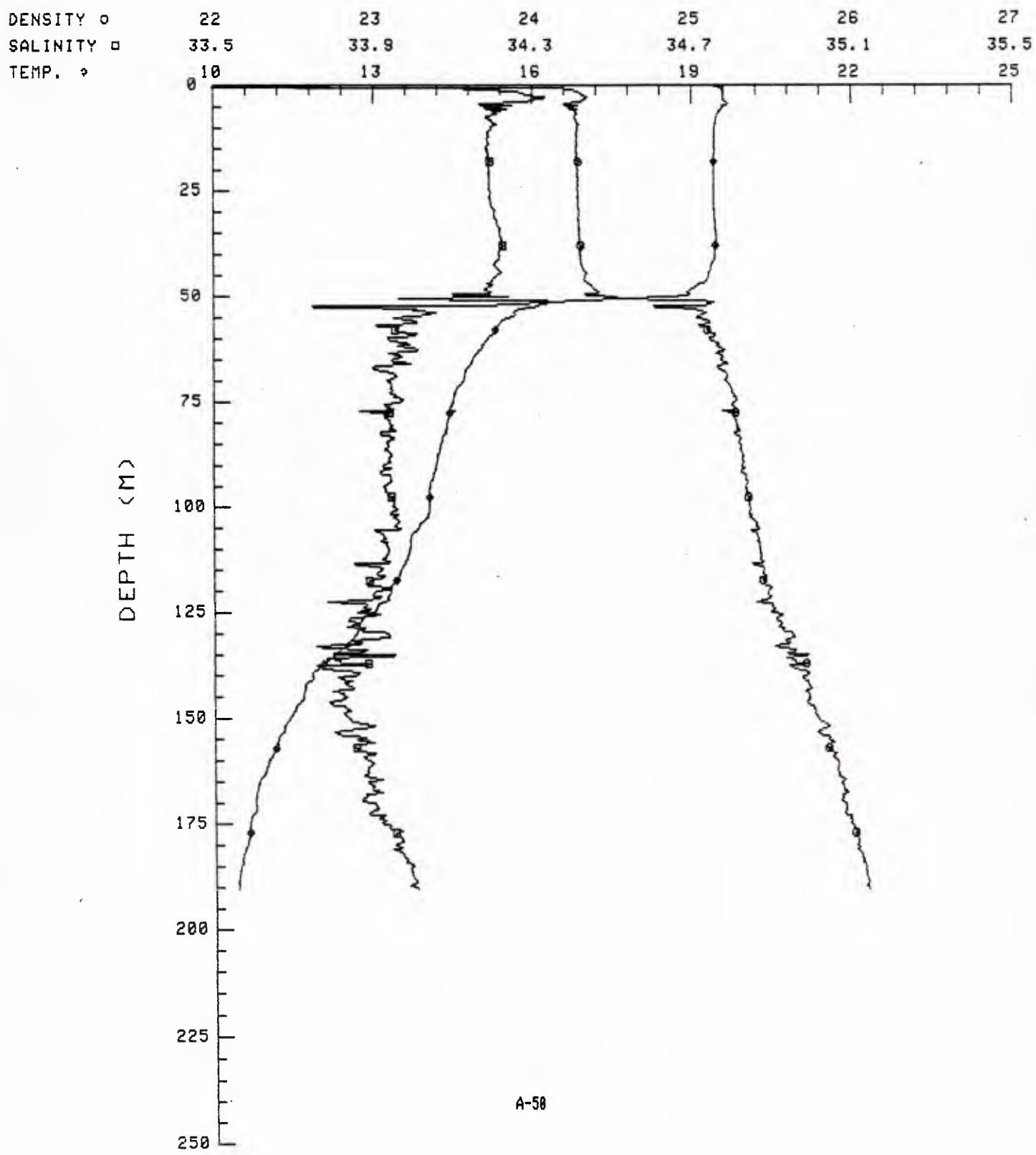
ODEX 3 STA 80 DN CAST 11-2-82 23:34  
LATITUDE 31.2380N      LONGITUDE 140.5890W



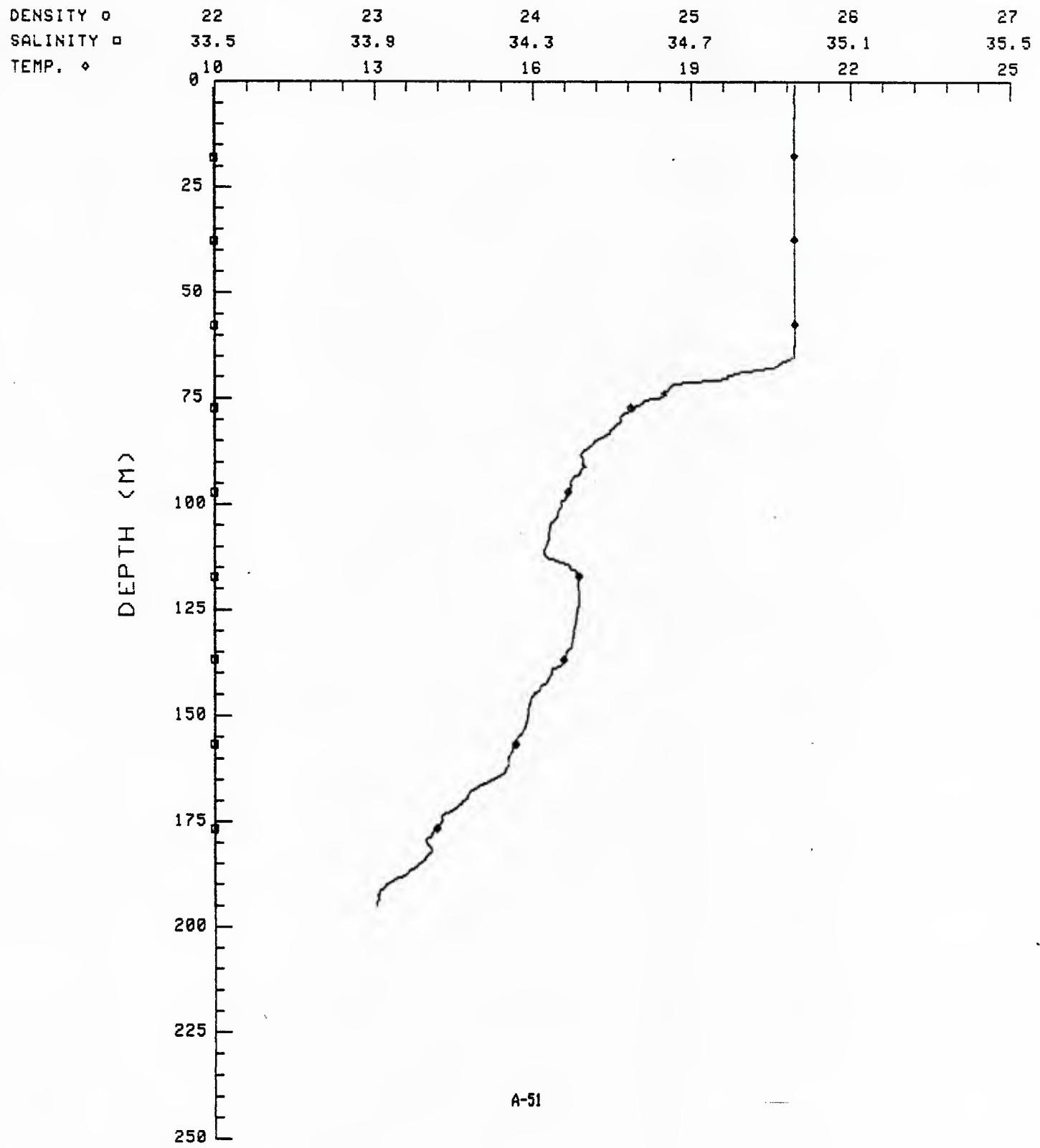
ODEX 3 STA 84 DN CAST 11-3-82 2010Z  
LATITUDE 32.5946N      LONGITUDE 140.4784W



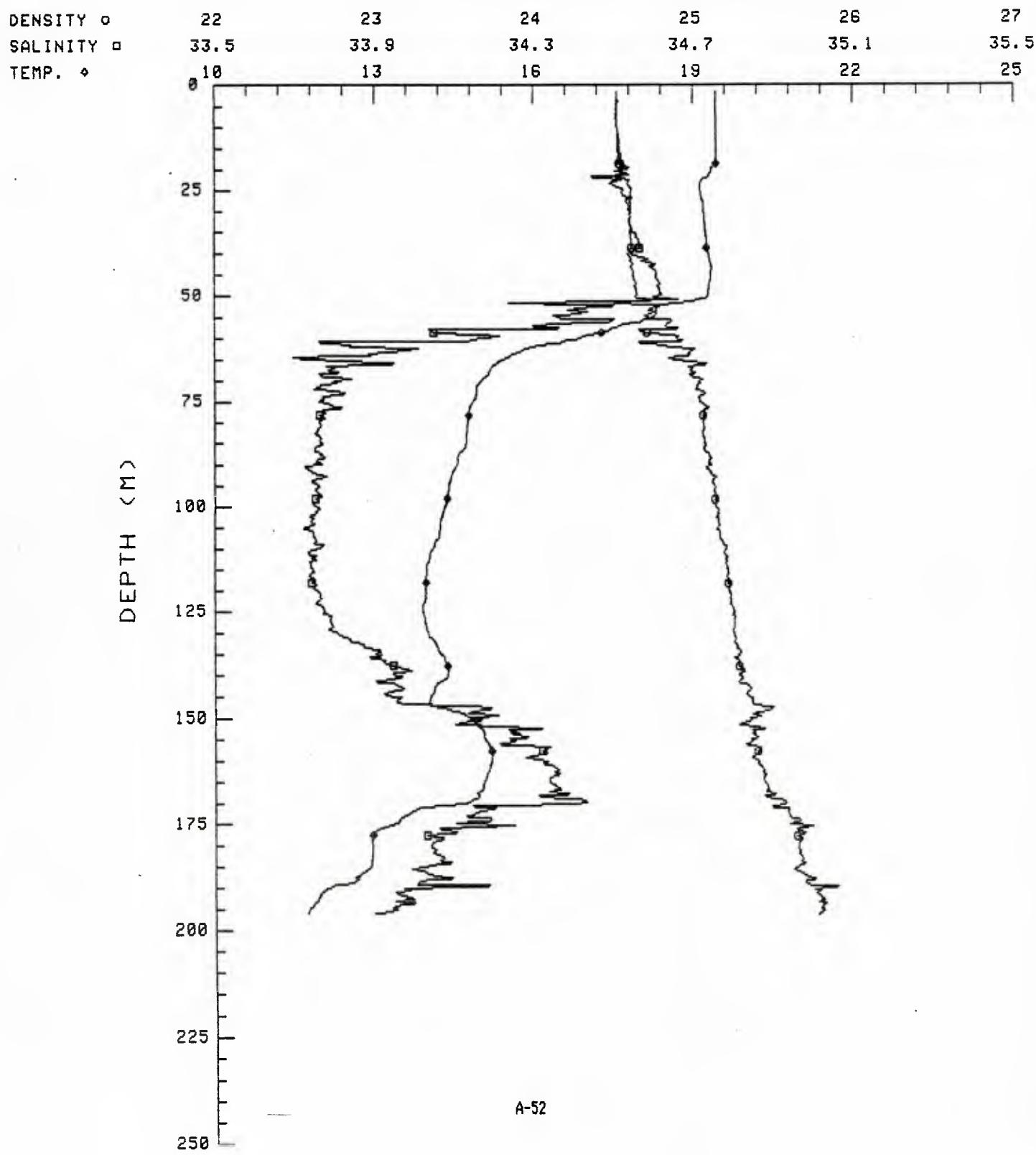
ODEX 3 STA 95 DN CAST 11-4-82 22:48  
LATITUDE 33.4950N LONGITUDE 141.1500W



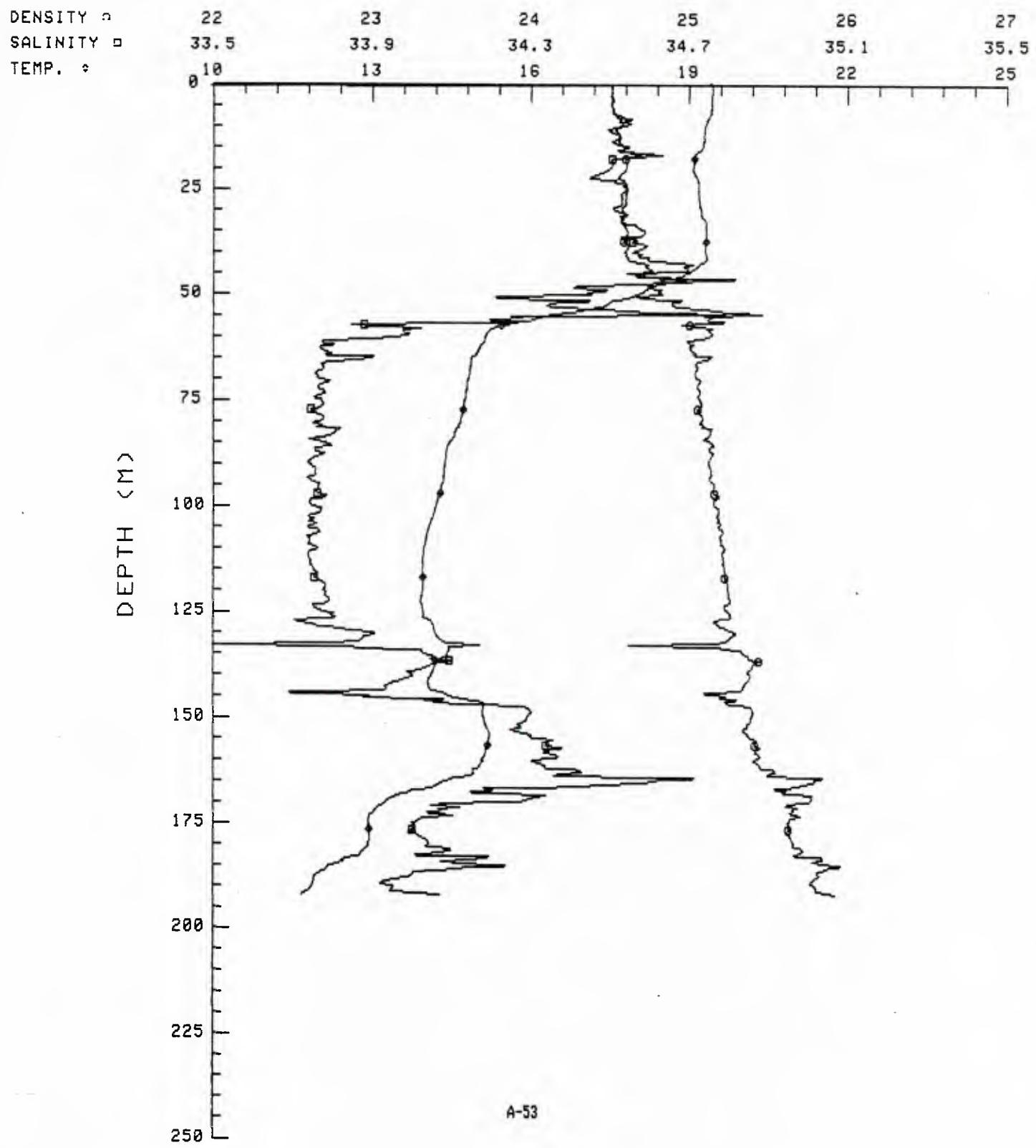
ODEX 3 STA 185 DN CAST 11-5-82 20:03  
LATITUDE 32.4650N      LONGITUDE 141.2380W



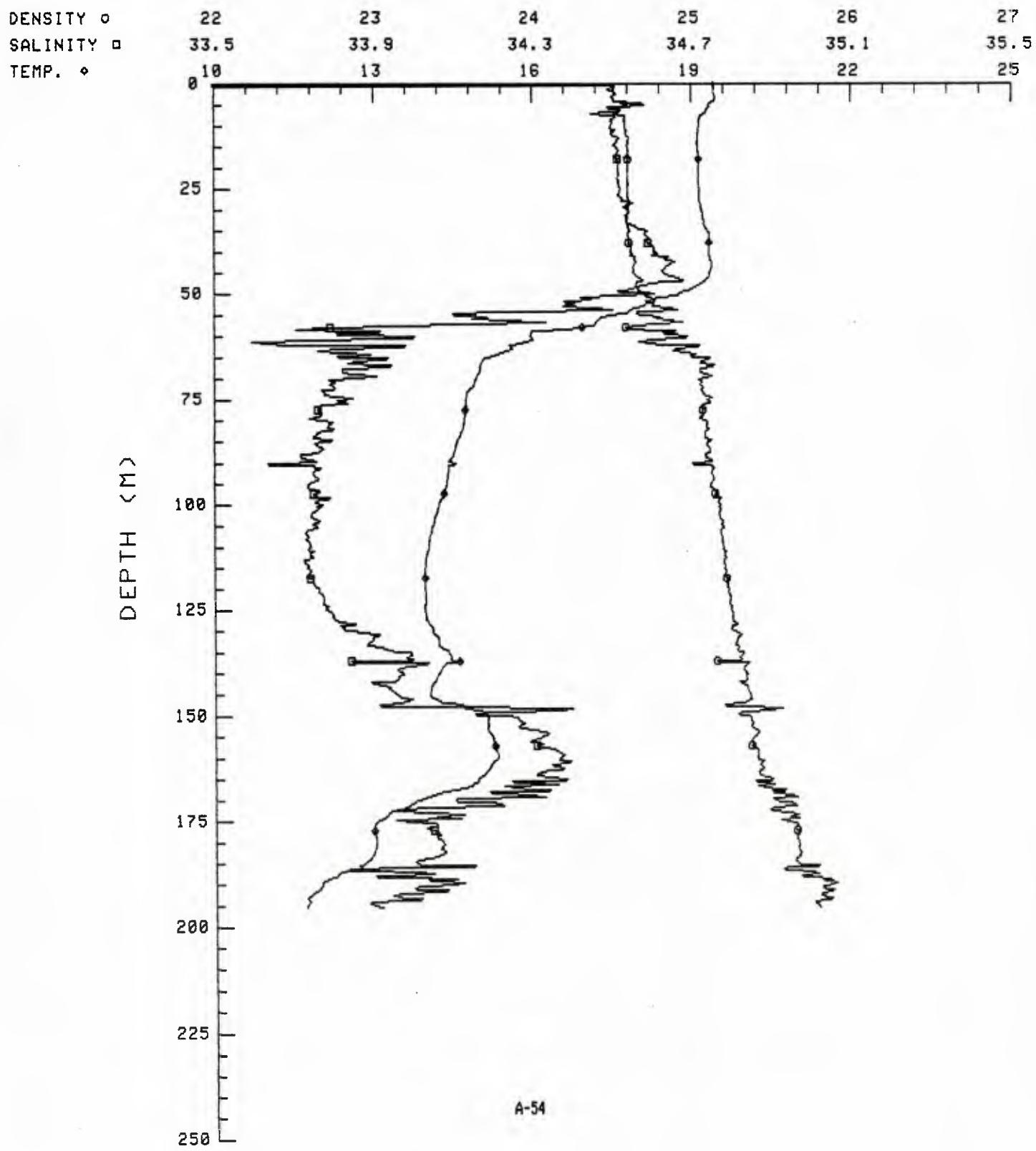
ODEX 3 STA 134 DN CAST 11-8-82 2200Z  
LATITUDE 32.5605N      LONGITUDE 142.1503W



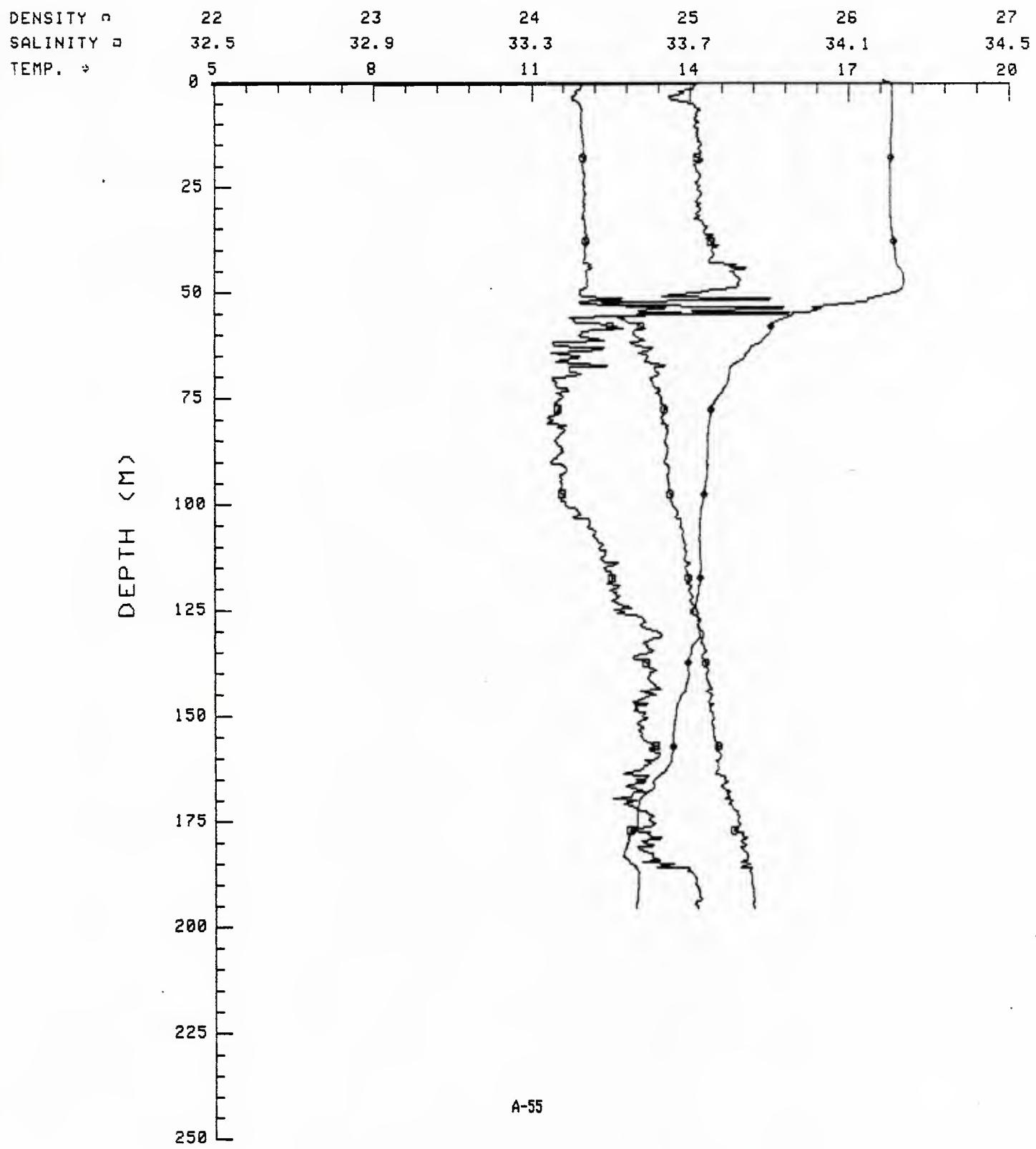
ODEX 3 STA 134 UP CAST 11-8-82 2214Z  
LATITUDE 32.5605N      LONGITUDE 142.1503W



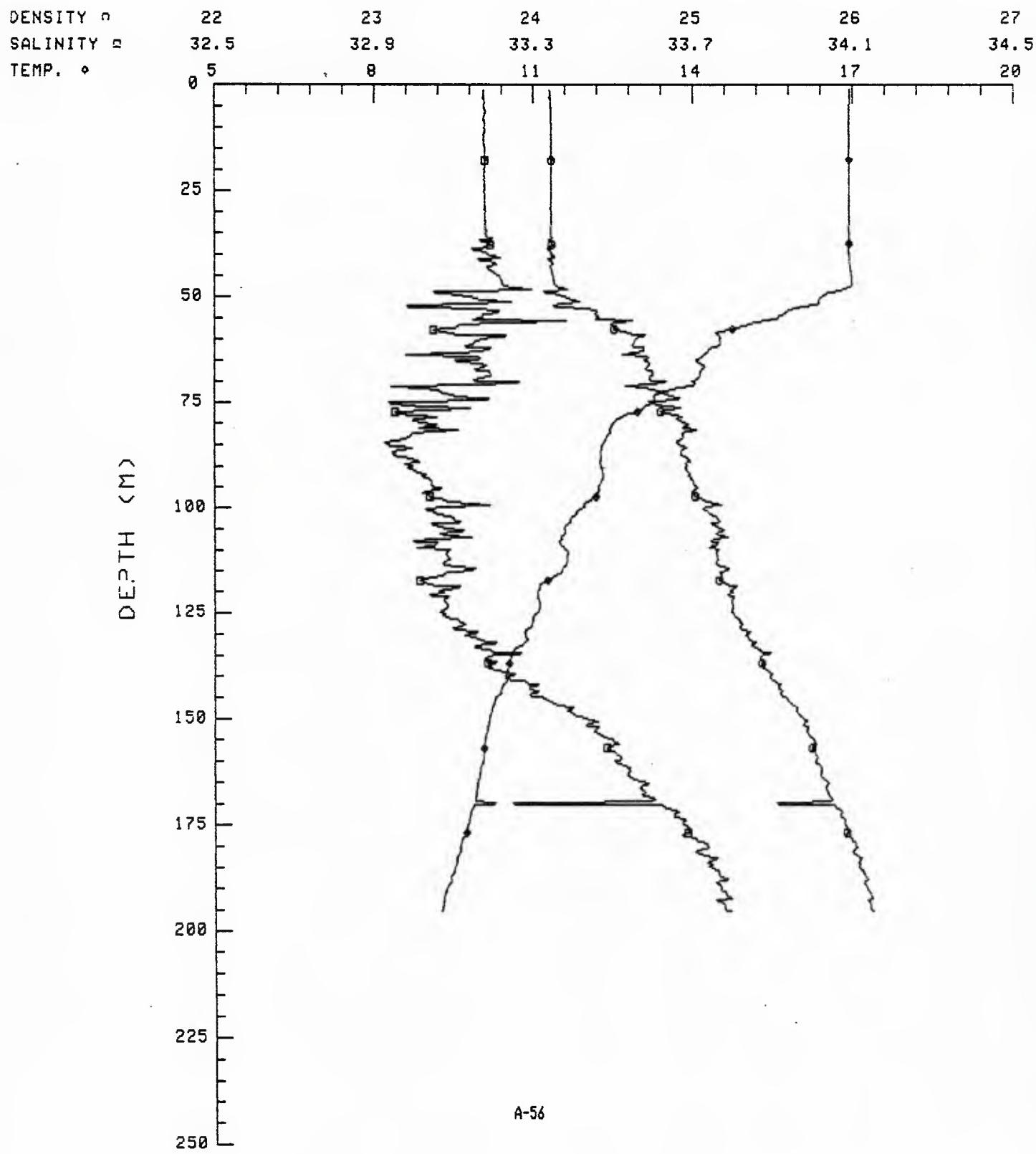
ODEX 3 STA 134A DN CAST 11-8-82 22:30  
LATITUDE 32.5685N      LONGITUDE 142.1583W



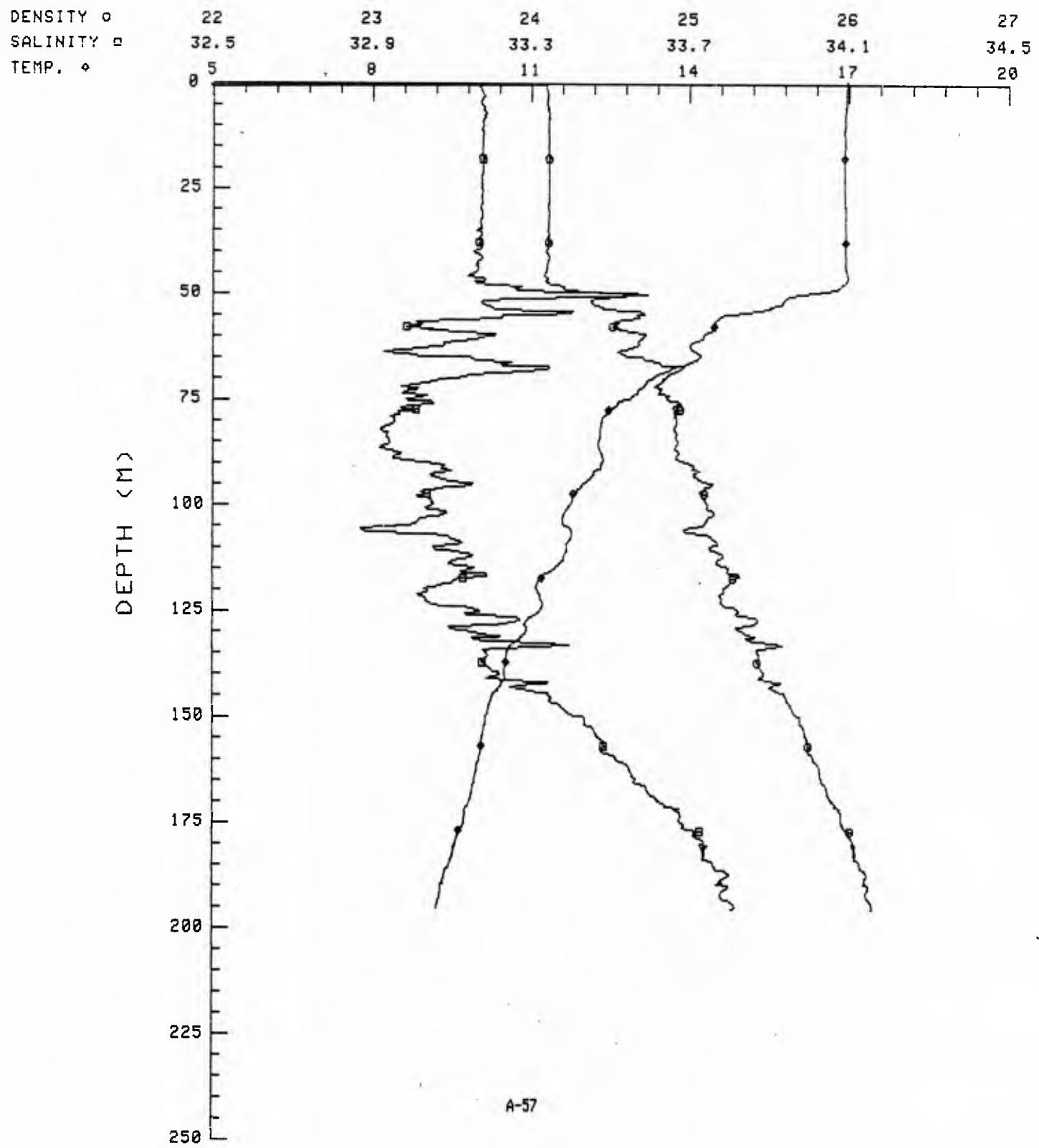
ODEX 3 STA 167 DN CAST 11-12-82 2338Z  
LATITUDE 33.479N      LONGITUDE 136.468W



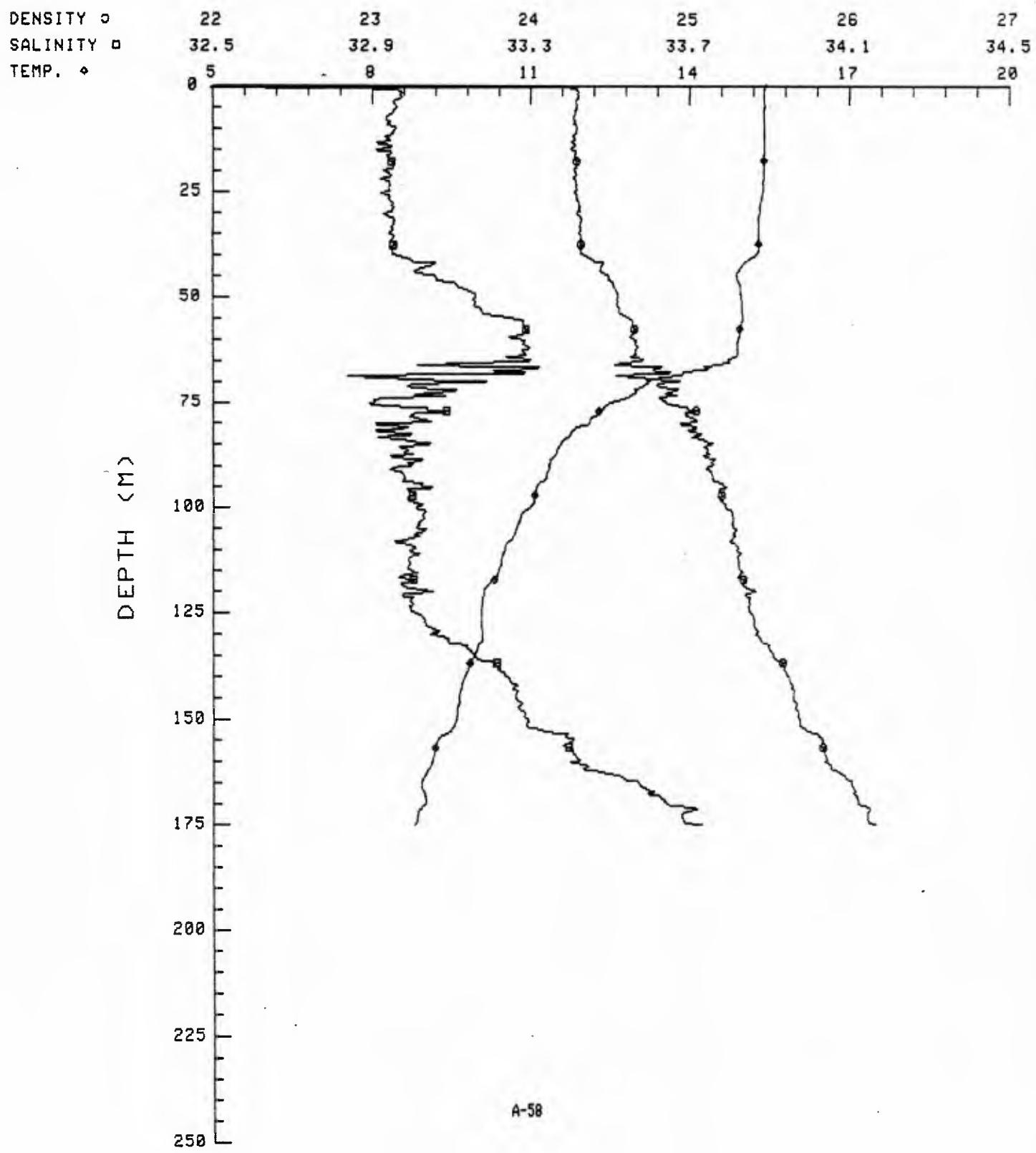
ODDEX 3 STA 170 DN CAST 11-15-82 1926Z  
LATITUDE 34.482N      LONGITUDE 127.1375W



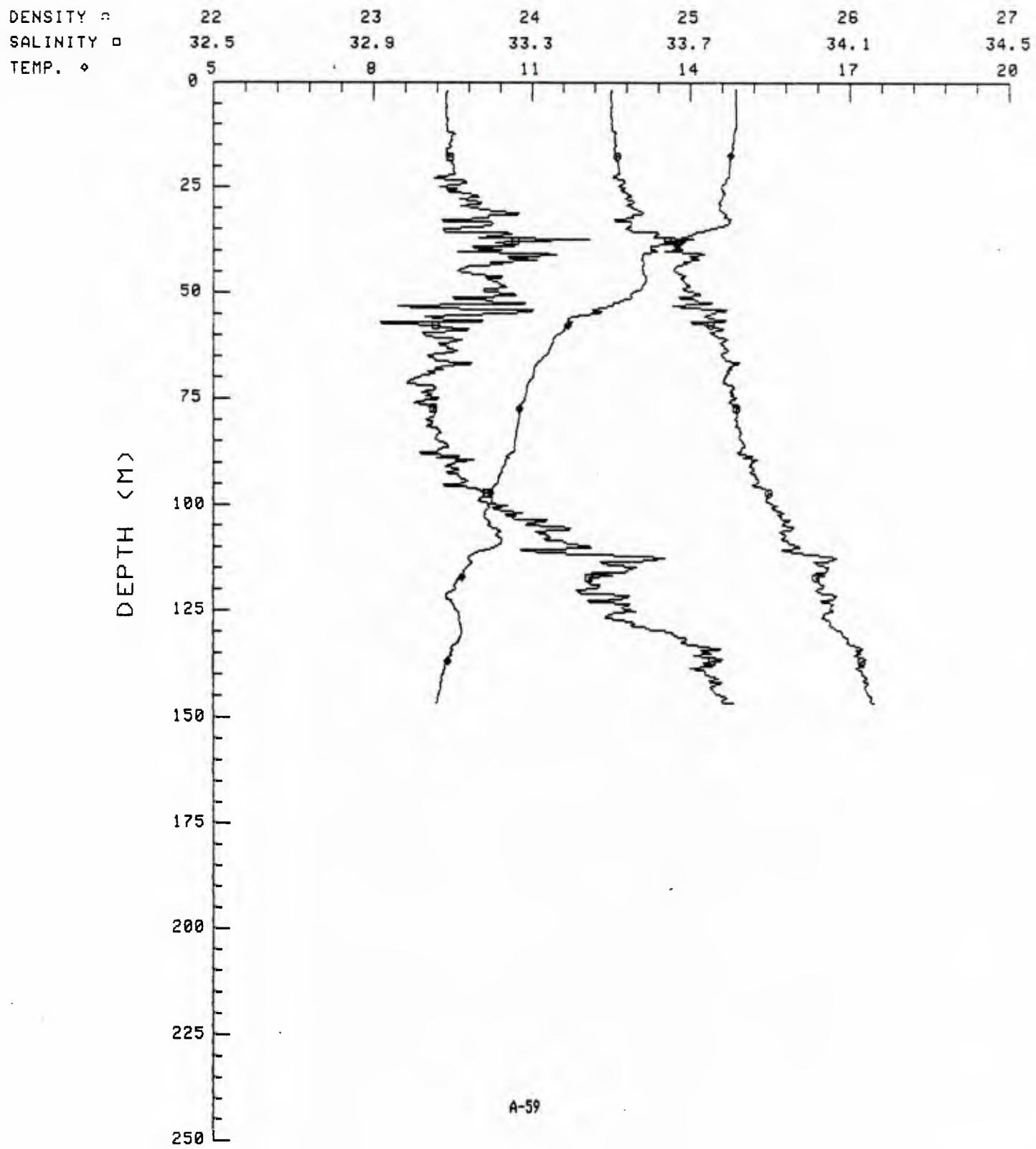
ODEX 3 STA 178 UP CAST 11-15-82 1935Z  
LATITUDE 34.4828N      LONGITUDE 127.1375W



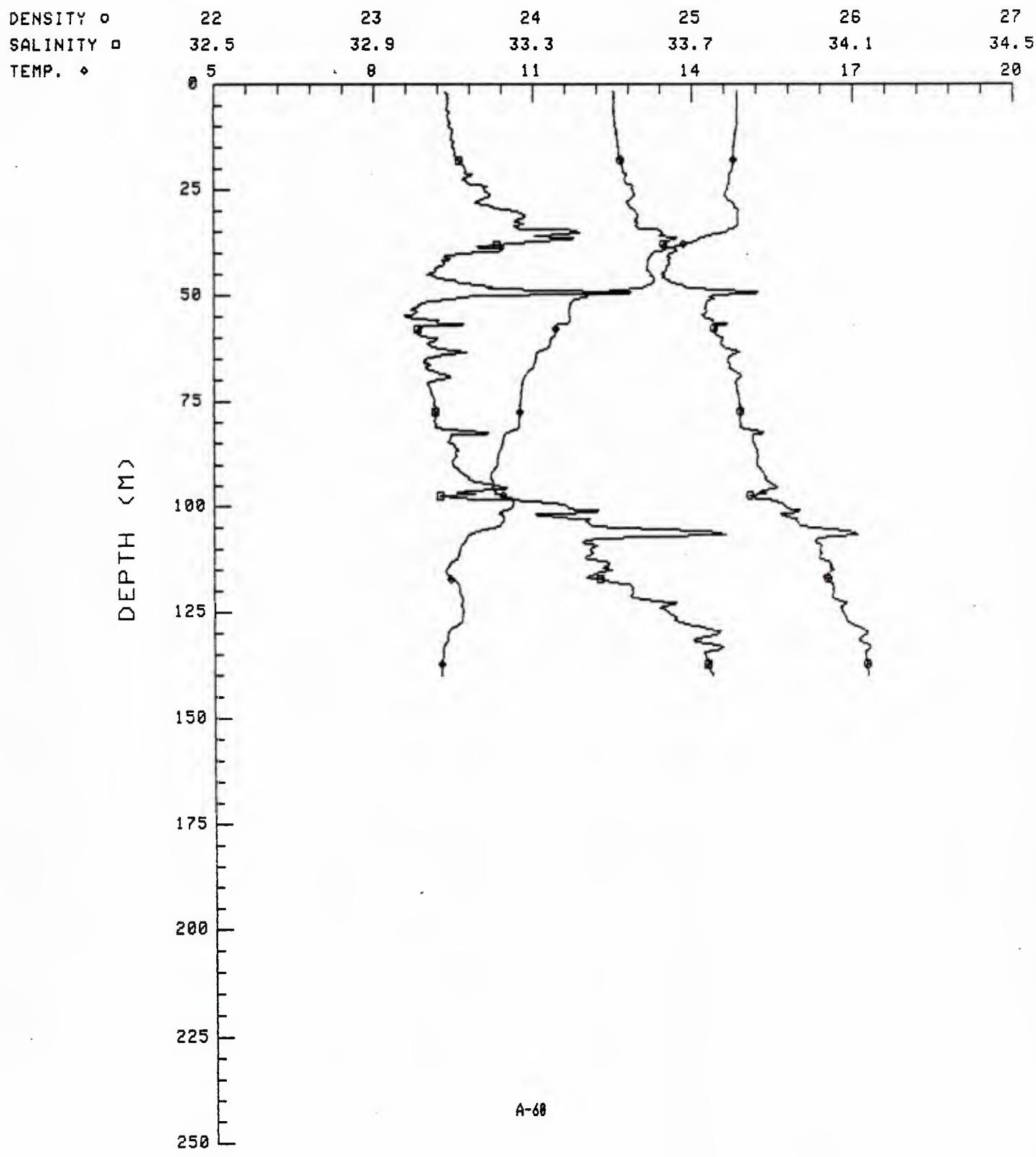
ODEX 3 STA 175 DN CAST 11-16-82 18:38  
LATITUDE 34.5989N      LONGITUDE 123.5262W



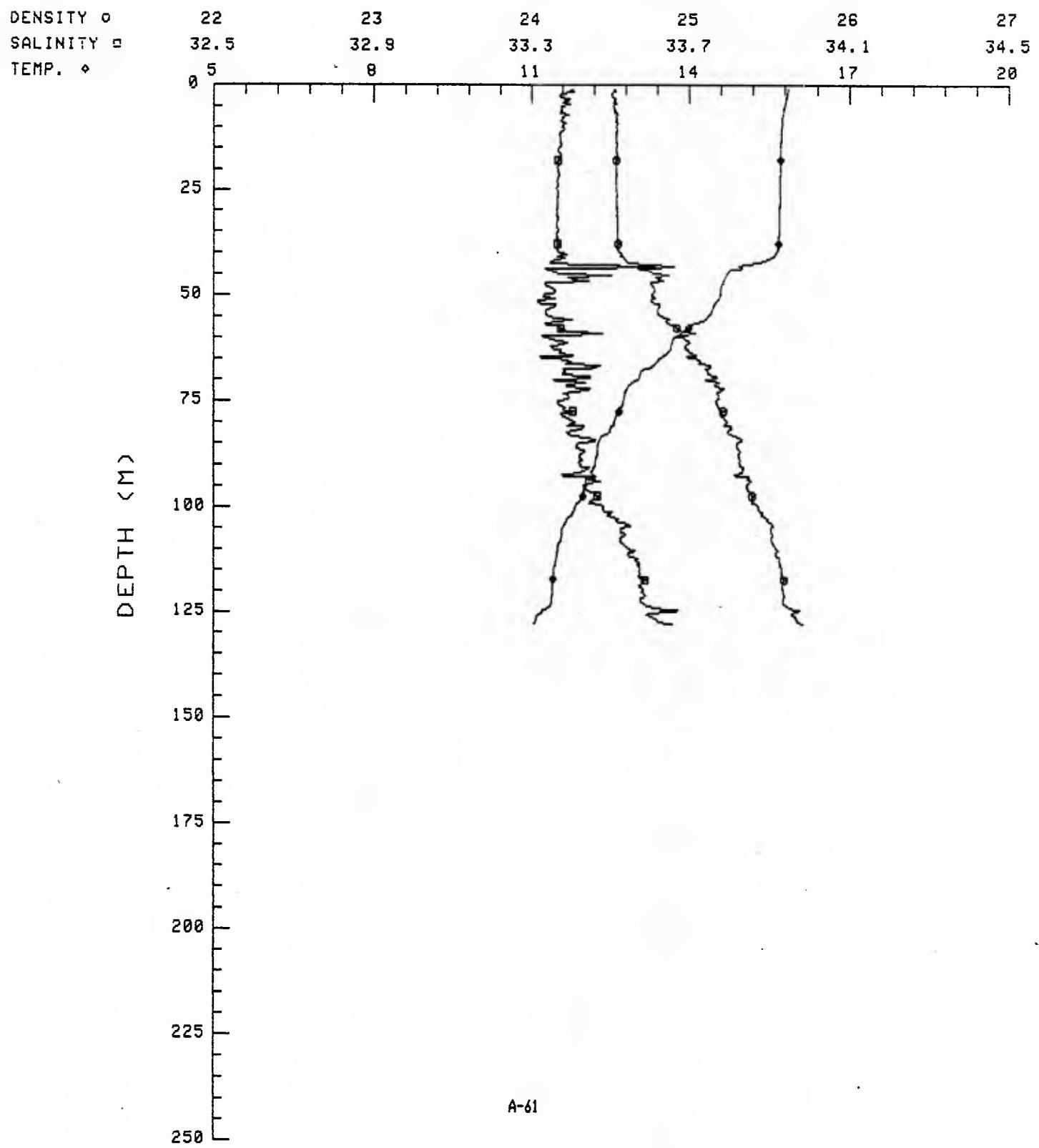
ODEX 3 STA 176 DN CAST 11-16-82 23:18  
LATITUDE 34.5865N      LONGITUDE 123.3559W



ODEX 3 STA 176 UP CAST 11-16-82 2328Z  
LATITUDE 34.5865N      LONGITUDE 123.3559W



ODEX 3 STA 182 DN CAST 11-17-82 15:44  
LATITUDE 35.5353N      LONGITUDE 121.3916W



ODEX 3 STA 182 UP CAST 11-17-82 2026Z

LATITUDE 35.5353N

LONGITUDE 121.3916W

DENSITY  $\sigma$

22

23

24

25

26

27

SALINITY  $\sigma$

32.5

32.9

33.3

33.7

34.1

34.5

TEMP.  $\diamond$

5

8

11

14

17

20

DEPTH (M)

0

25

50

75

100

125

150

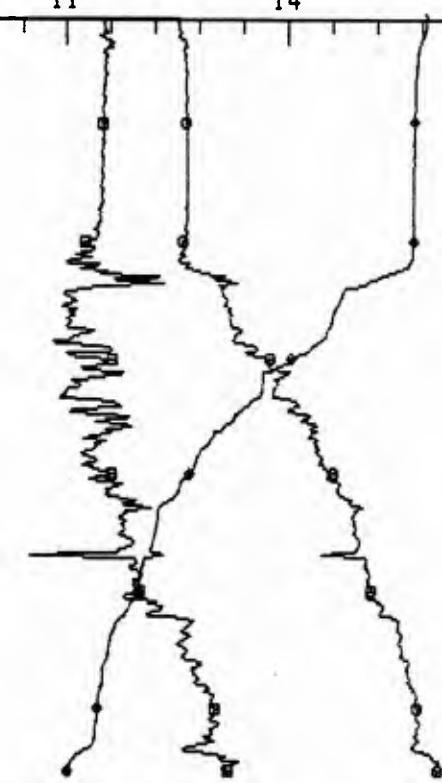
175

200

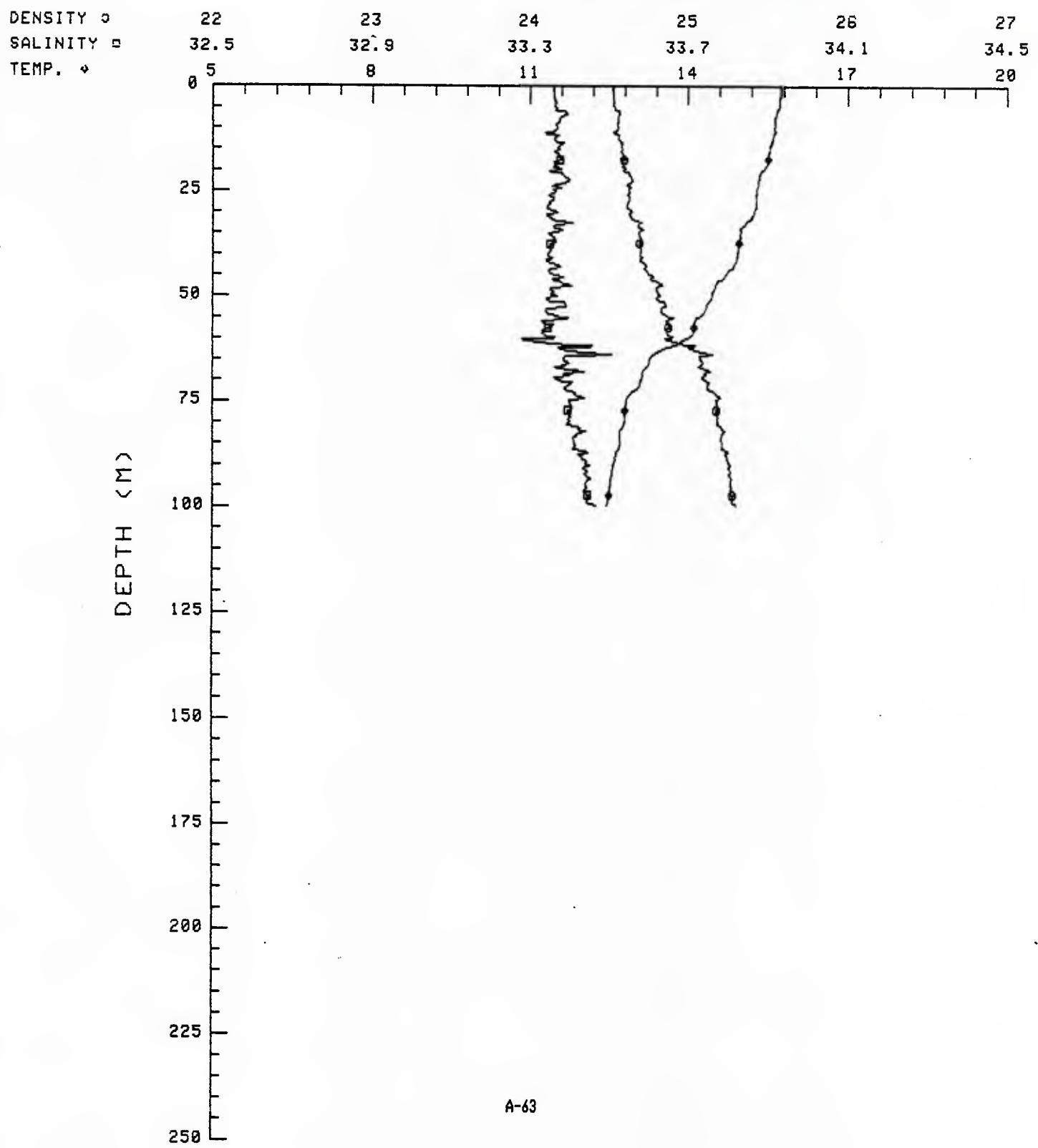
225

250

A-62



ODEX 3 STA 184 DN CAST 11-17-82 2339Z  
LATITUDE 35.5320N      LONGITUDE 121.3110W



ODEX 3 STA 184 UP CAST 11-17-82 2352Z

LATITUDE 35.5320N

LONGITUDE 121.3110W

DENSITY  $\sigma$

22

23

24

25

26

27

SALINITY  $\sigma$

32.5

32.9

33.3

33.7

34.1

34.5

TEMP.  $\phi$

5

8

11

14

17

20

DEPTH (M)

0

25

50

75

100

125

150

175

200

225

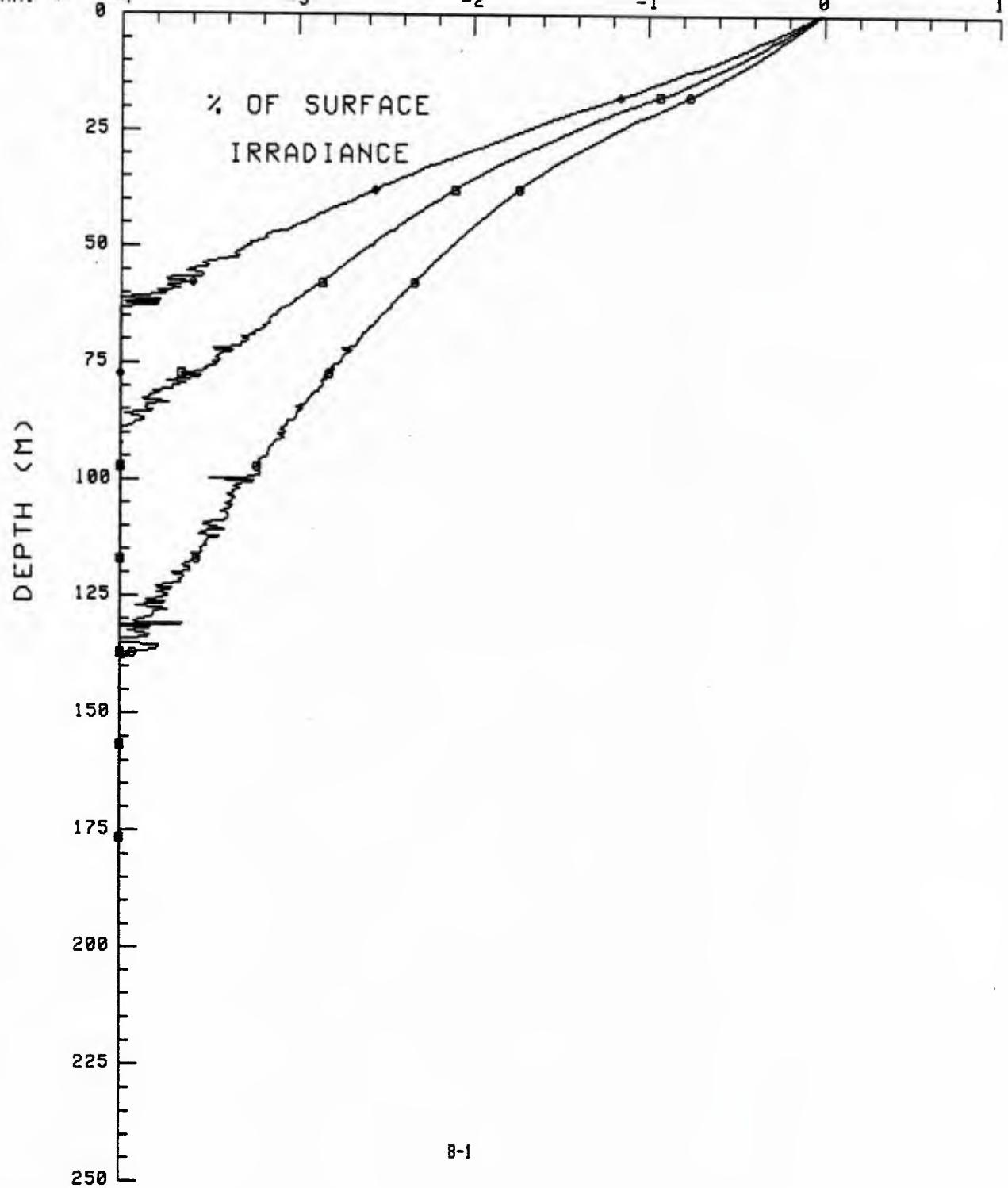
250

A-64

ODEX 3 STA 7 DN CAST  
LATITUDE 35.1940N

LONGITUDE 121.3000W

LOG 465 NM.	0	-4	-3	-2	-1	0	1
LOG 441 NM.	□	-4	-3	-2	-1	0	1
LOG 419 NM.	♦	-4	-3	-2	-1	0	1



ODEX 3 STA 7 ON CAST

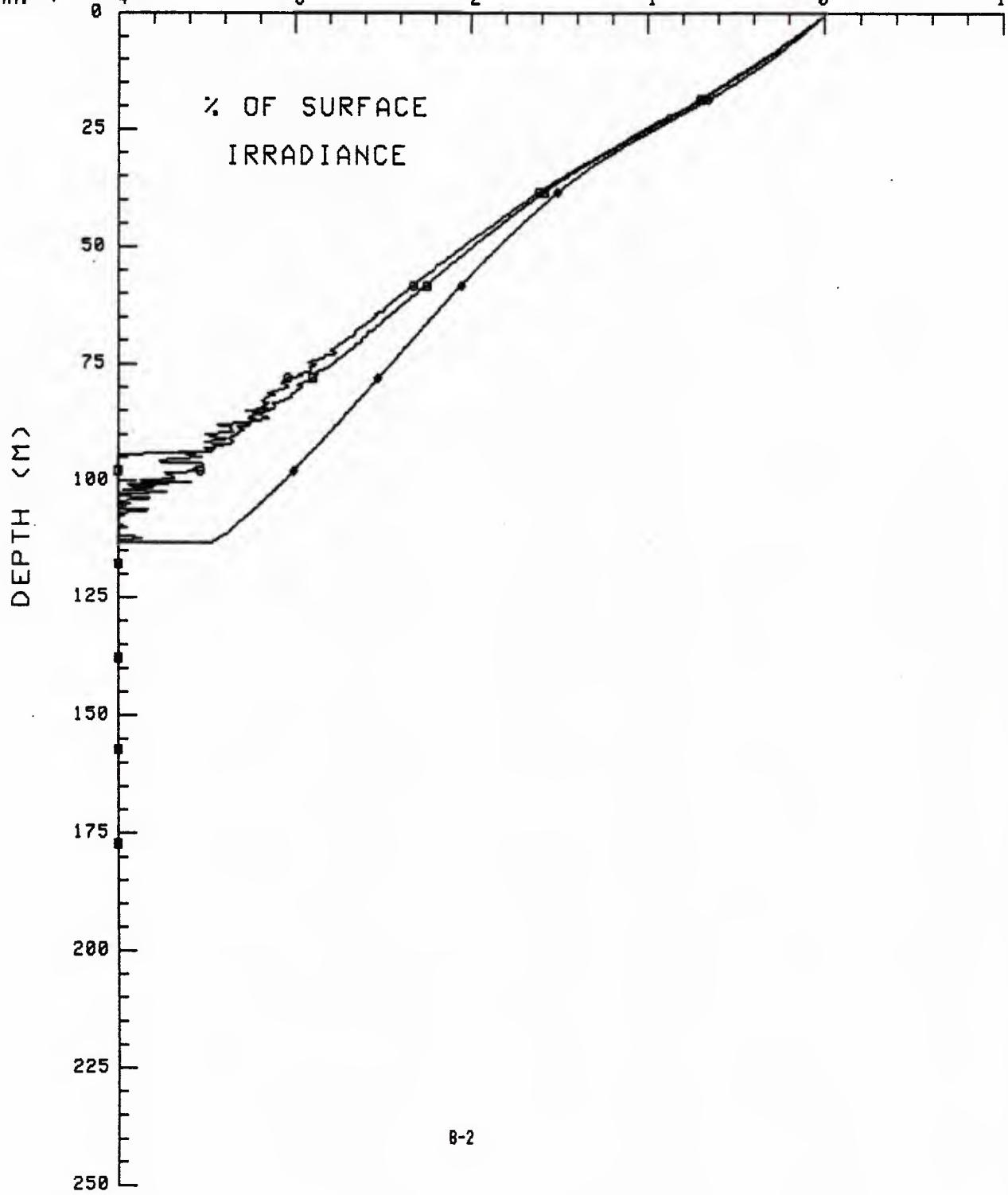
LATITUDE 35.1940N

LONGITUDE 121.3000W

LOG 540 NM. 0 -4 -3 -2 -1 0 1

LOG 520 NM. □ -4 -3 -2 -1 0 1

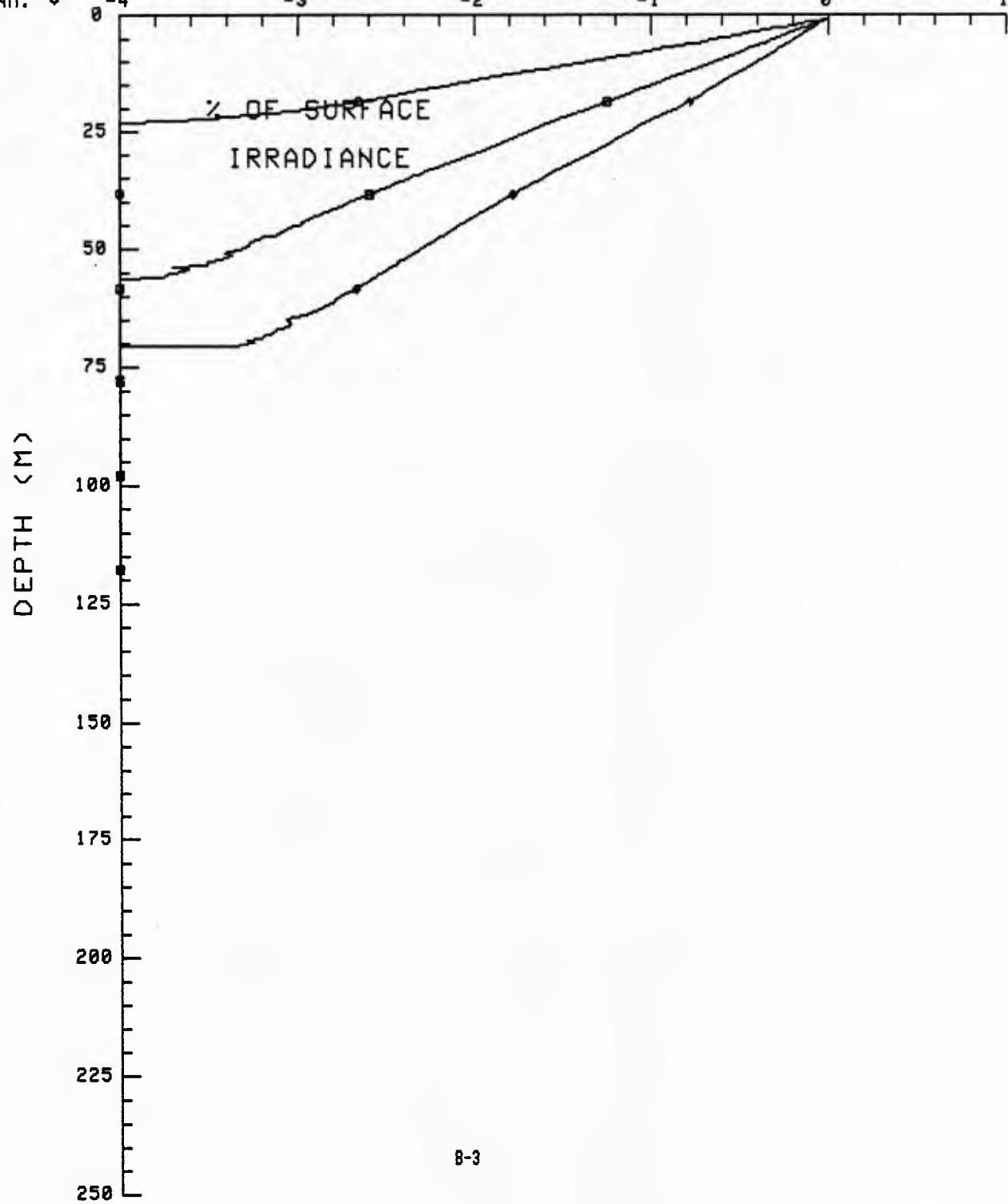
LOG 488 NM. ♦ -4 -3 -2 -1 0 1



ODEX 3 STA 7 DN CAST  
LATITUDE 35.1948N

LONGITUDE 121.3888W

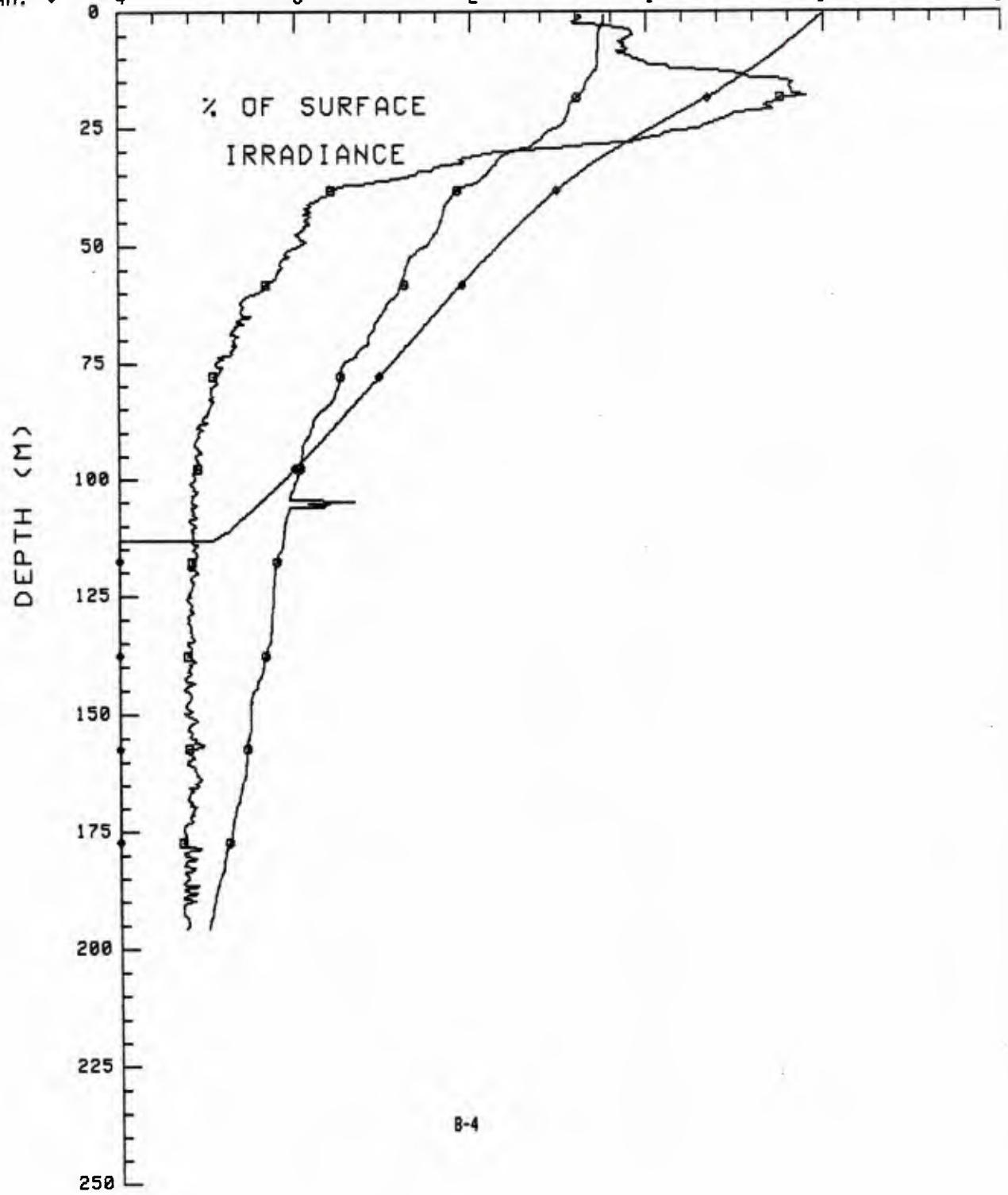
LOG 625 NM. o -4 -3 -2 -1 0 1  
LOG 589 NM. □ -4 -3 -2 -1 0 1  
LOG 560 NM. ♦ -4 -3 -2 -1 0 1



ODEX 3 STA 7 ON CAST  
LATITUDE 35.1940N

LONGITUDE 121.3000W

TEMP. °C 7 10 13 16 19 22  
C 665 \*3 □ .35 .44 .53 .62 .71 .8  
LOG 488 NM. -4 -3 -2 -1 0 1

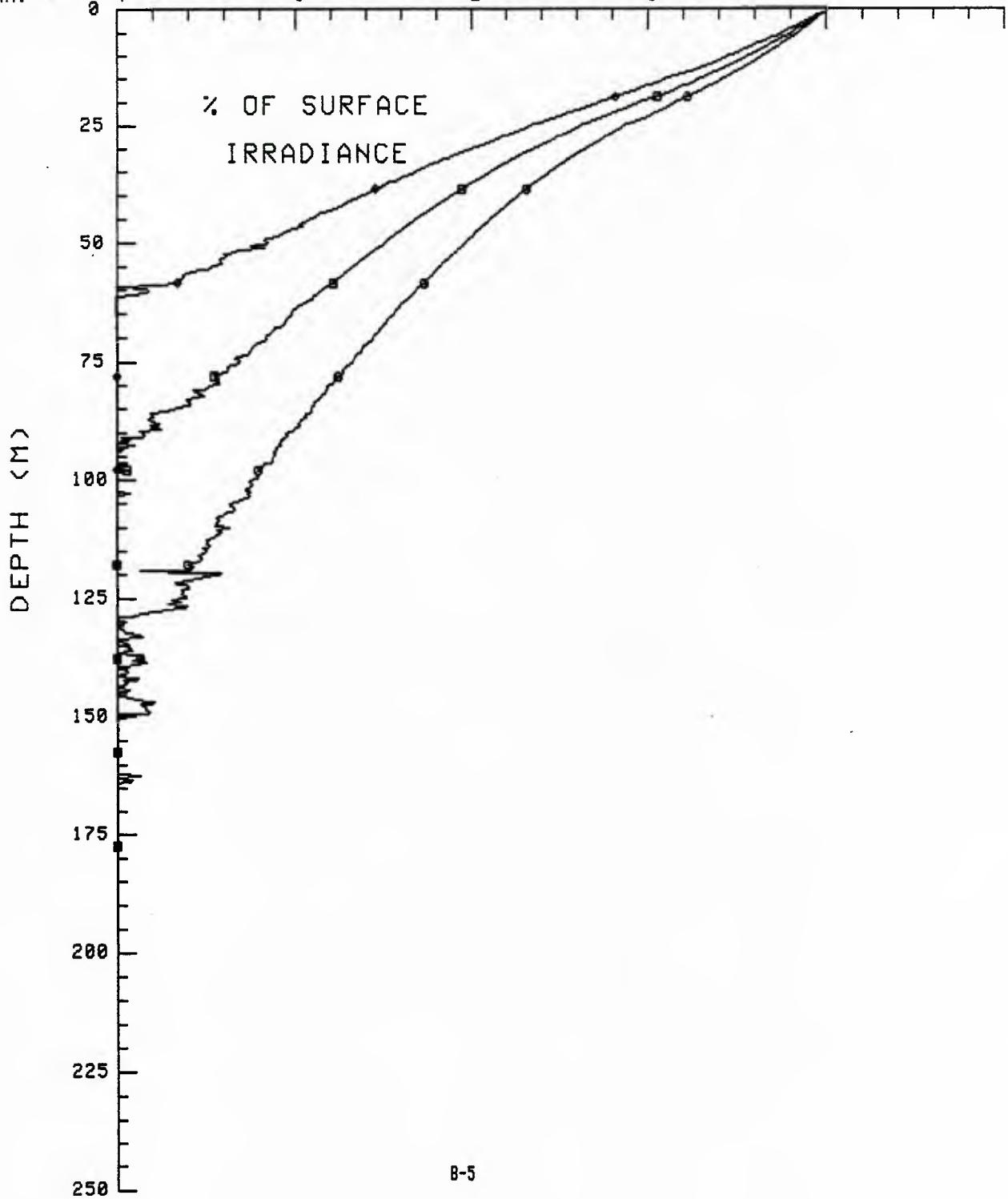


ODEX 3 STA 7 UP CAST  
LATITUDE 35.1940N

LONGITUDE 121.3000W

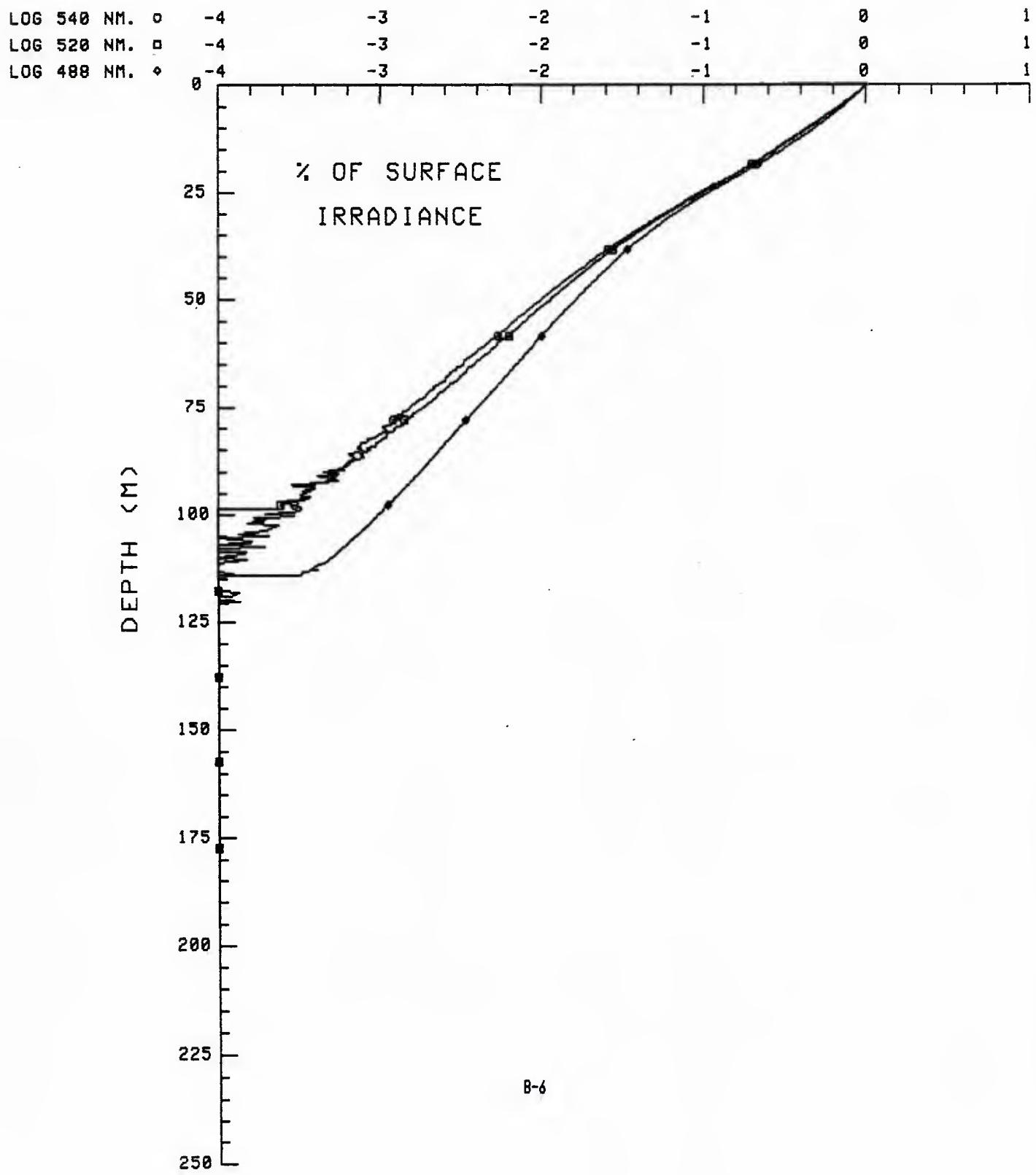
LOG 465 NM. o -4  
LOG 441 NM. □ -4  
LOG 410 NM. ♦ -4

-3 -2 -1 0 1  
-3 -2 -1 0 1  
-3 -2 -1 0 1



ODEX 3 STA 7 UP CAST  
LATITUDE 35.1948N

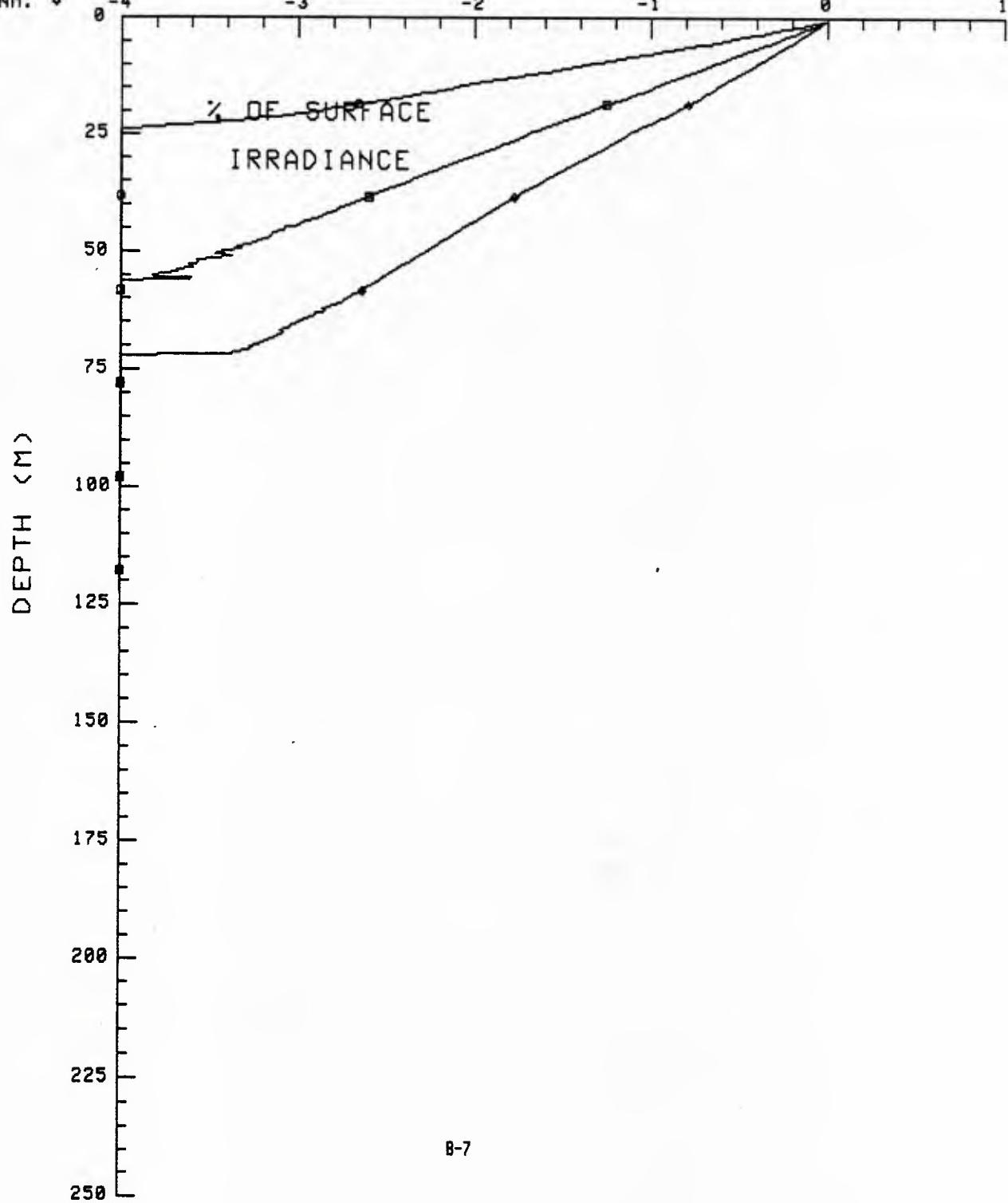
LONGITUDE 121.3888W



ODEX 3 STA 7 UP CAST  
LATITUDE 35.1948N

LONGITUDE 121.3000W

LOG 625 NM. 0 -4 -3 -2 -1 0 1  
LOG 589 NM. 0 -4 -3 -2 -1 0 1  
LOG 560 NM. 0 -4 -3 -2 -1 0 1



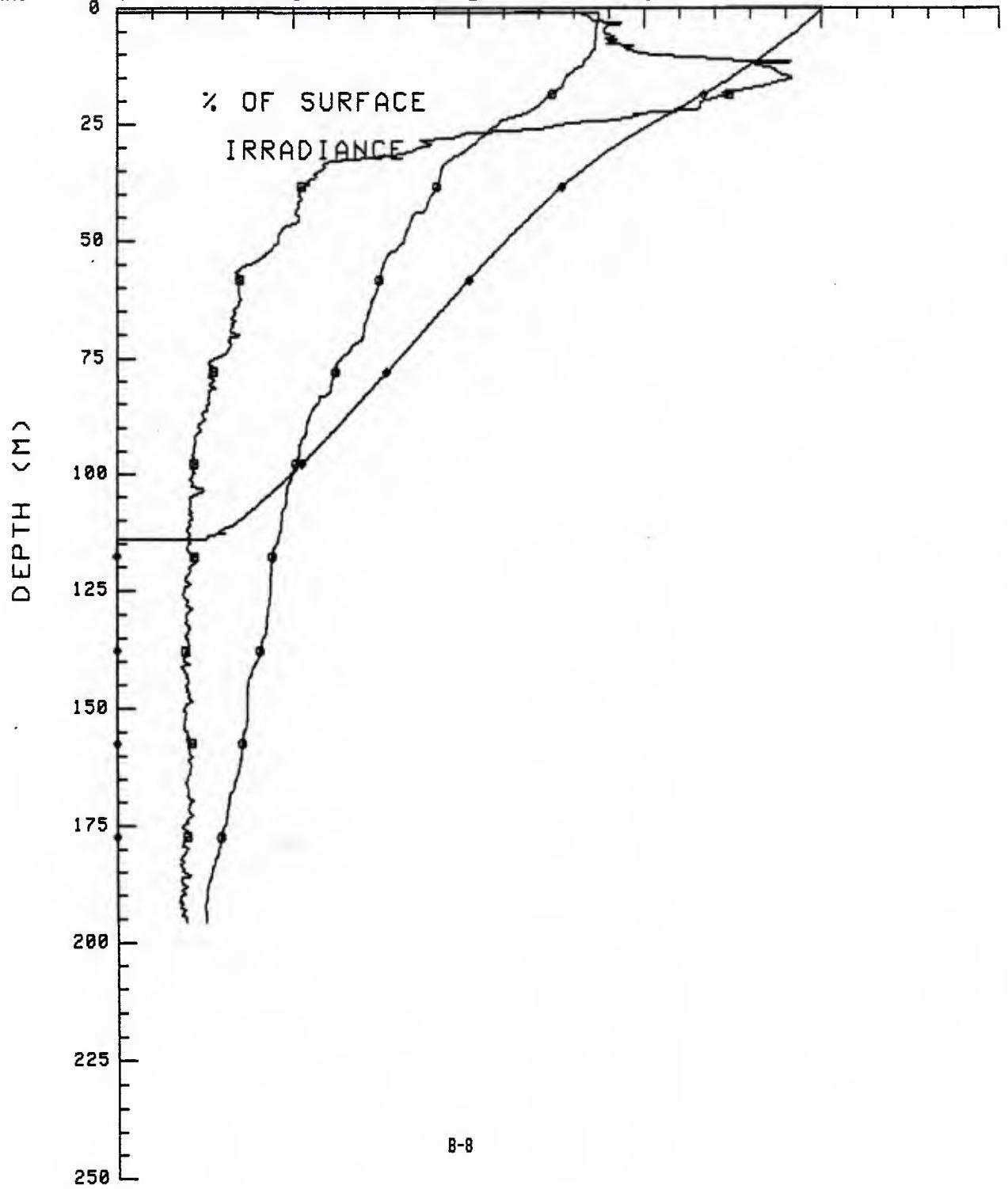
ODEX 3 STA 7 UP CAST

LATITUDE 35.194N

LONGITUDE 121.300W

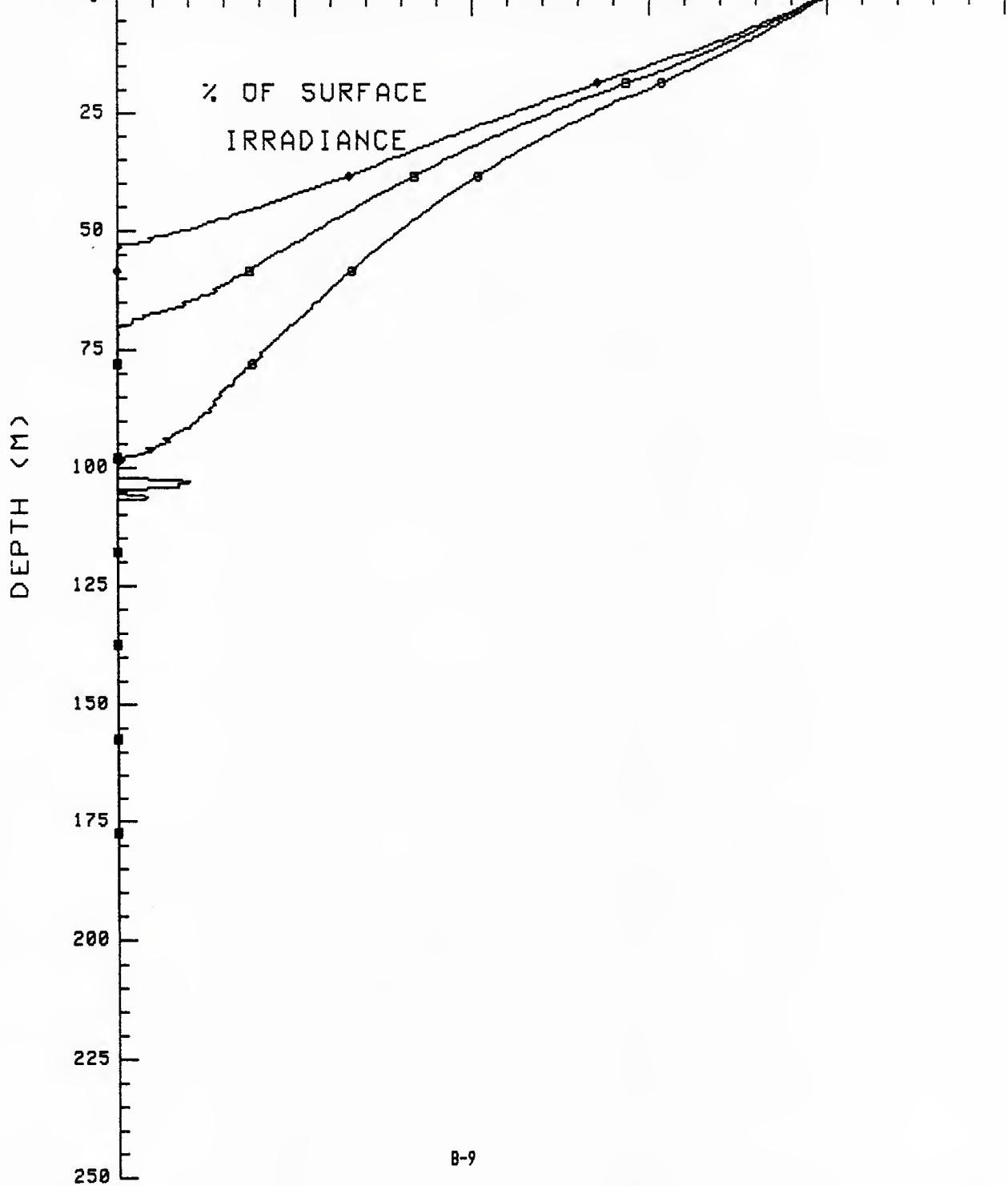
TEMP. °C 665 #3 □  
LOG 488 NM. °

7	10	13	16	19	22
.35	.44	.53	.62	.71	.8
-4	-3	-2	-1	0	1



ODEX 3 STA 9 10-12-82 2314Z DN CAST  
LATITUDE 35.1910N      LONGITUDE 121.0680W

LOG 465 NM.	o	-4	-3	-2	-1	0	1
LOG 441 NM.	□	-4	-3	-2	-1	0	1
LOG 410 NM.	◊	-4	-3	-2	-1	0	1



ODEX 3 STA 9 10-12-82 2314Z DN CAST

LATITUDE 35.1910N

LONGITUDE 121.8680W

LOG 540 NM. o -4

-3

-2

-1

0

1

LOG 520 NM. □ -4

-3

-2

-1

0

1

LOG 488 NM. ♦ -4

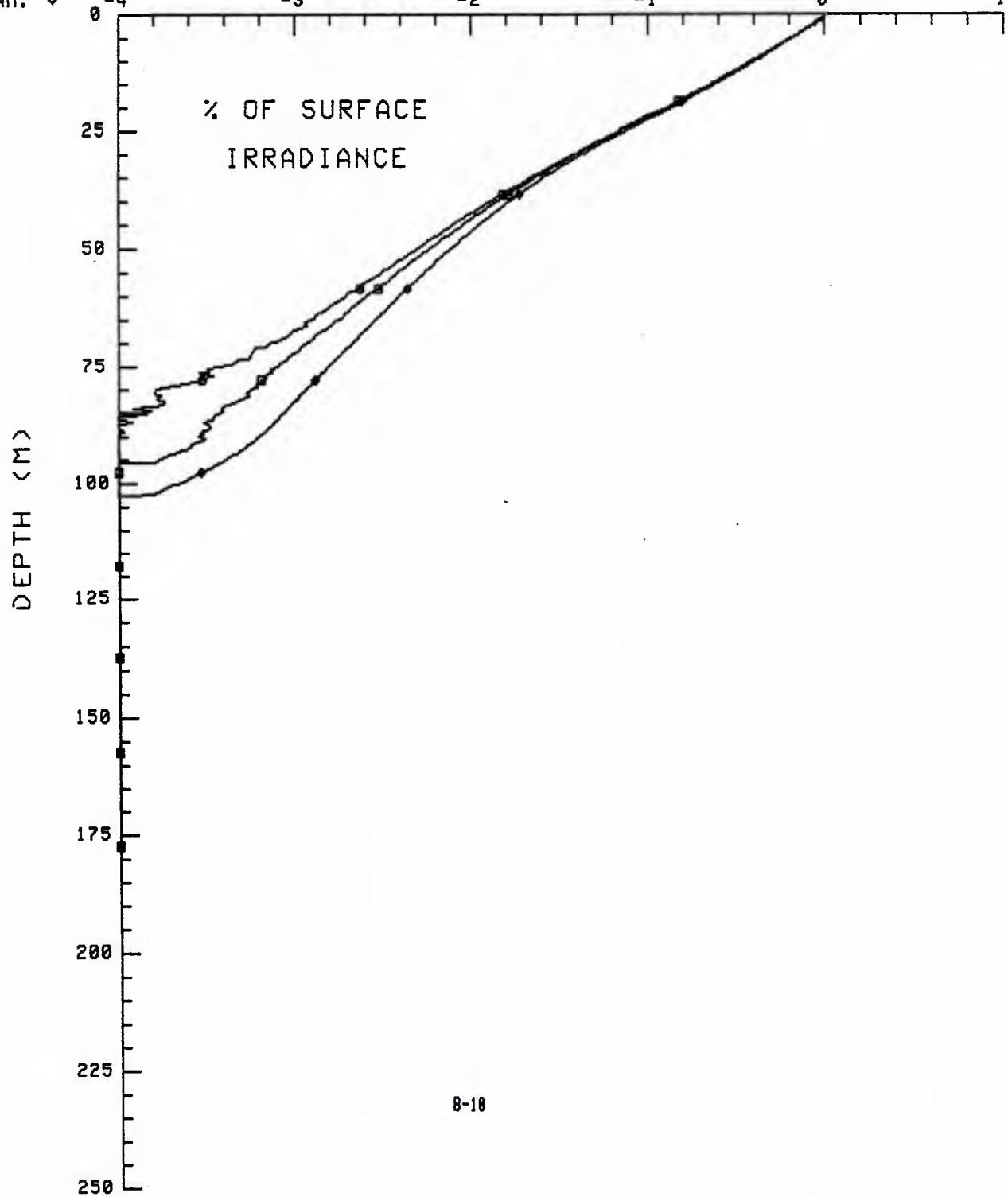
-3

-2

-1

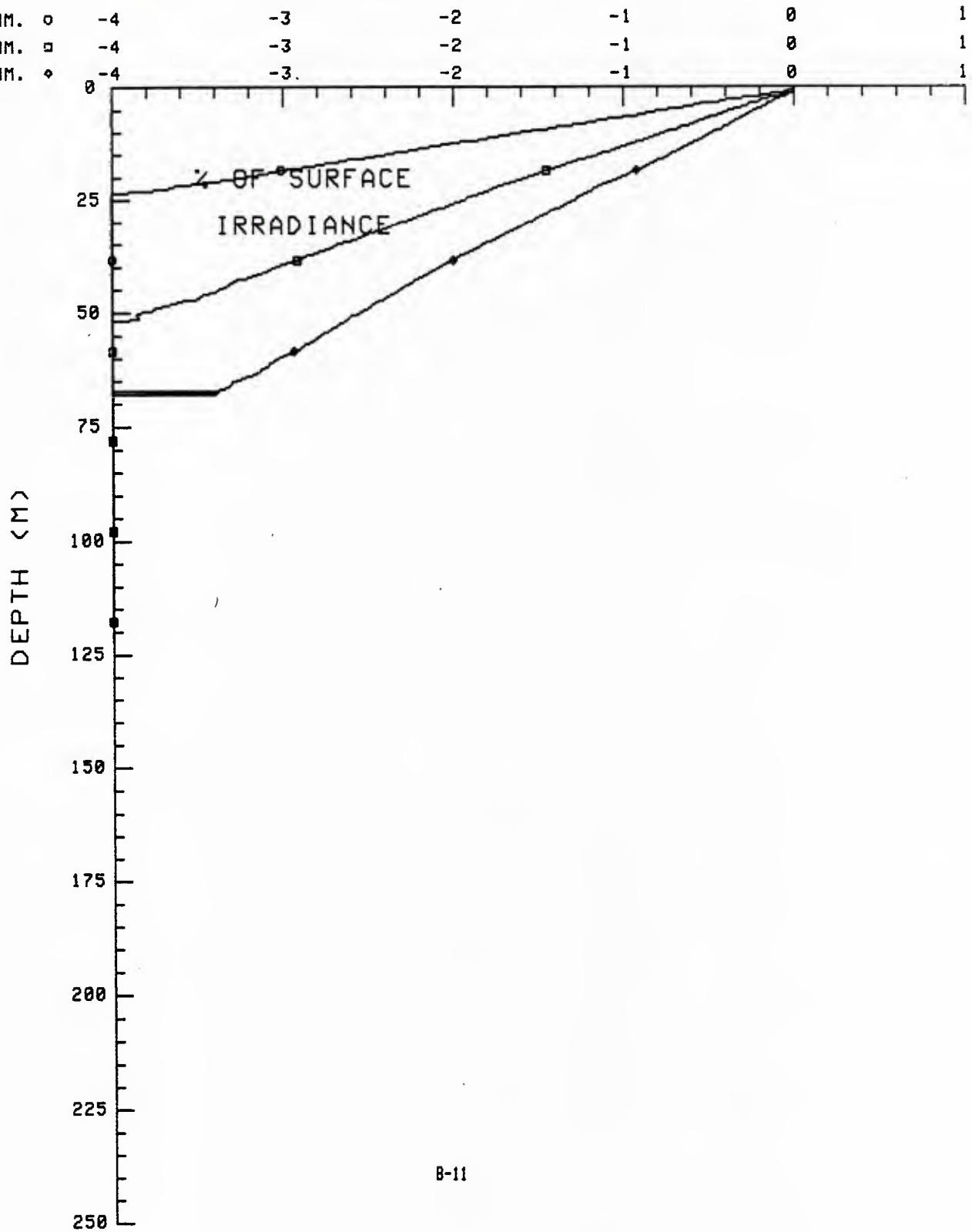
0

1



ODEX 3 STA 9 10-12-82 2314Z DN CAST  
LATITUDE 35.1910N LONGITUDE 121.0680W

LOG 625 NM. o -4 -3 -2 -1 0 1  
LOG 589 NM. □ -4 -3 -2 -1 0 1  
LOG 560 NM. ♦ -4 -3 -2 -1 0 1

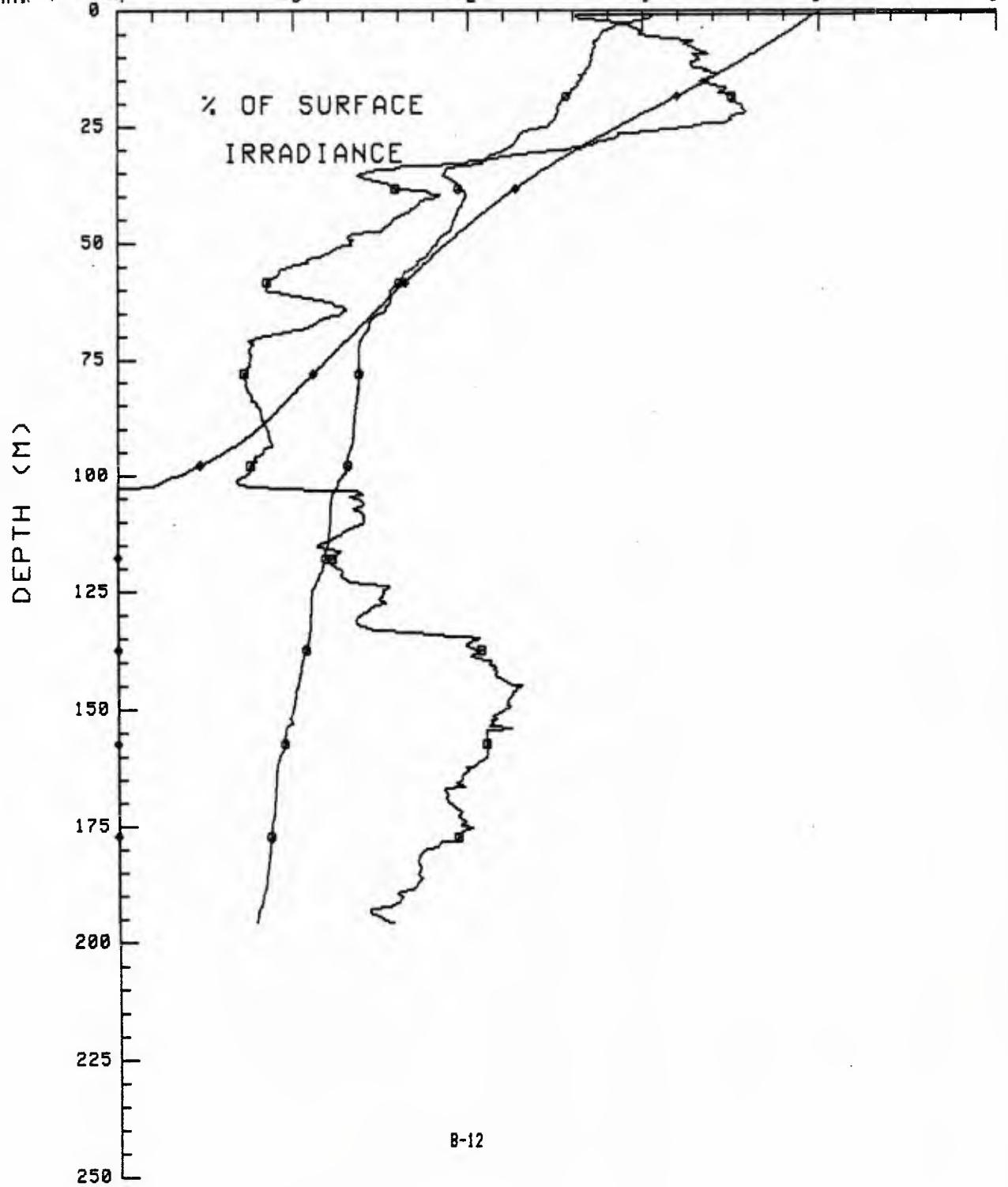


ODEX 3 STA 9 18-12-82 2314Z DN CAST

LATITUDE 35.1910N

LONGITUDE 121.0688W

TEMP. °C 7 10 13 16 19 22  
LOG 665 \*3 □ .35 .44 .53 .62 .71 .8  
LOG 488 NM.. ♦ -4 -3 -2 -1 0 1



ODEX 3 STA 9 10-12-82 2345Z UP CAST  
LATITUDE 35.1910N      LONGITUDE 121.0680W

LOG 465 NM. o -4

-3

-2

-1

0

1

LOG 441 NM. □ -4

-3

-2

-1

0

1

LOG 410 NM. ♦ -4

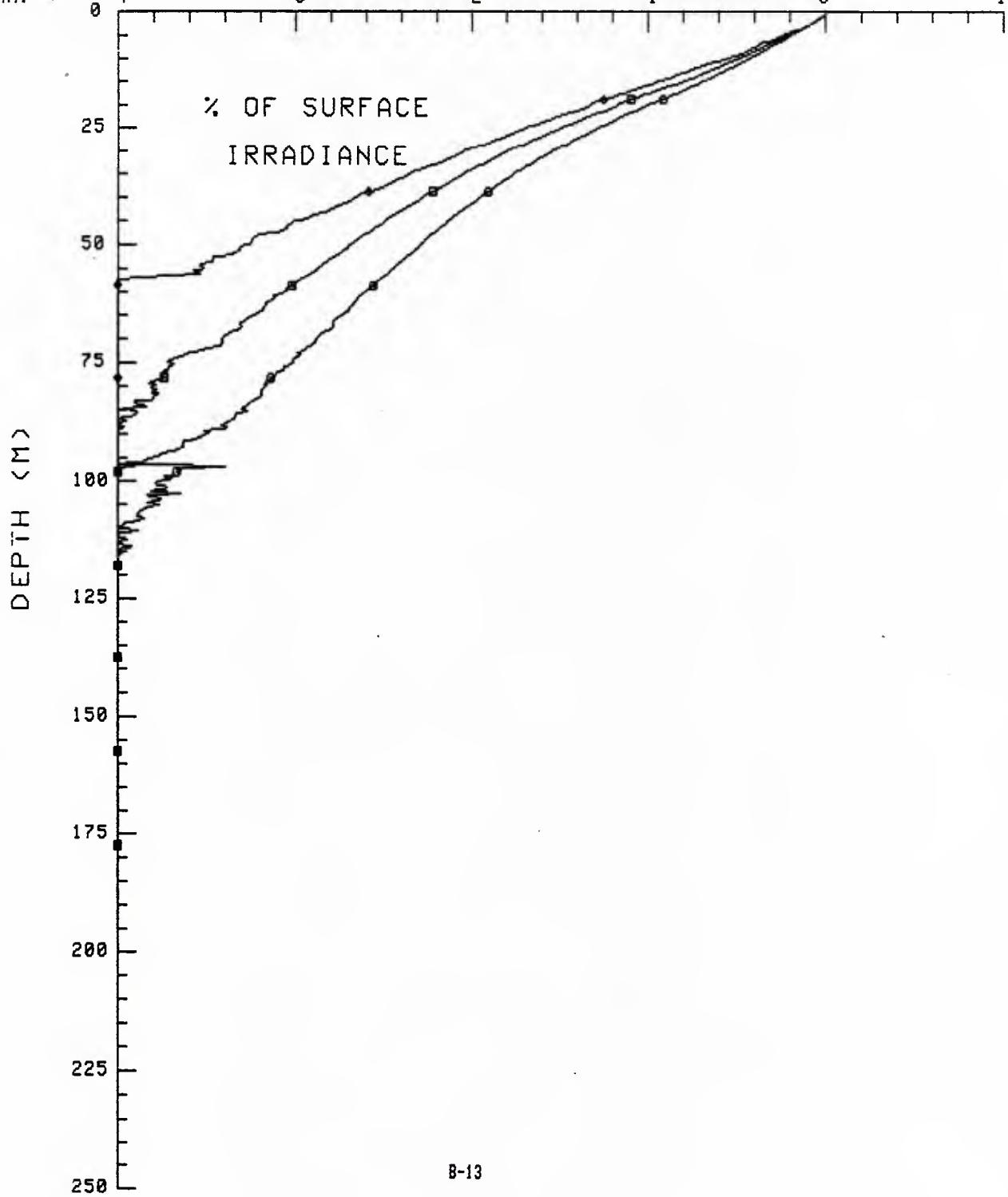
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-2

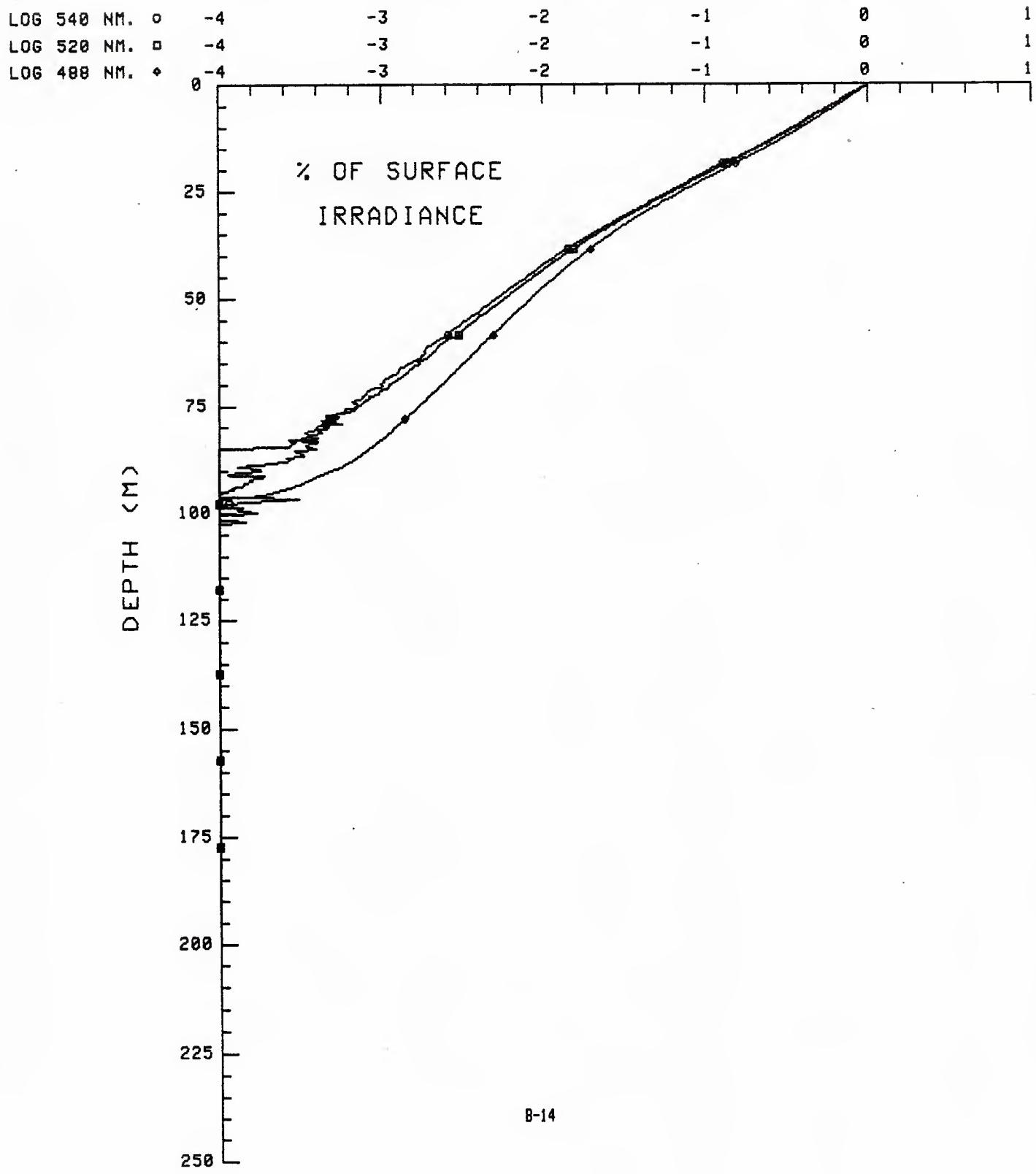
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0

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ODEX 3 STA 9 10-12-82 2345Z UP CAST  
LATITUDE 35.1910N LONGITUDE 121.8680W

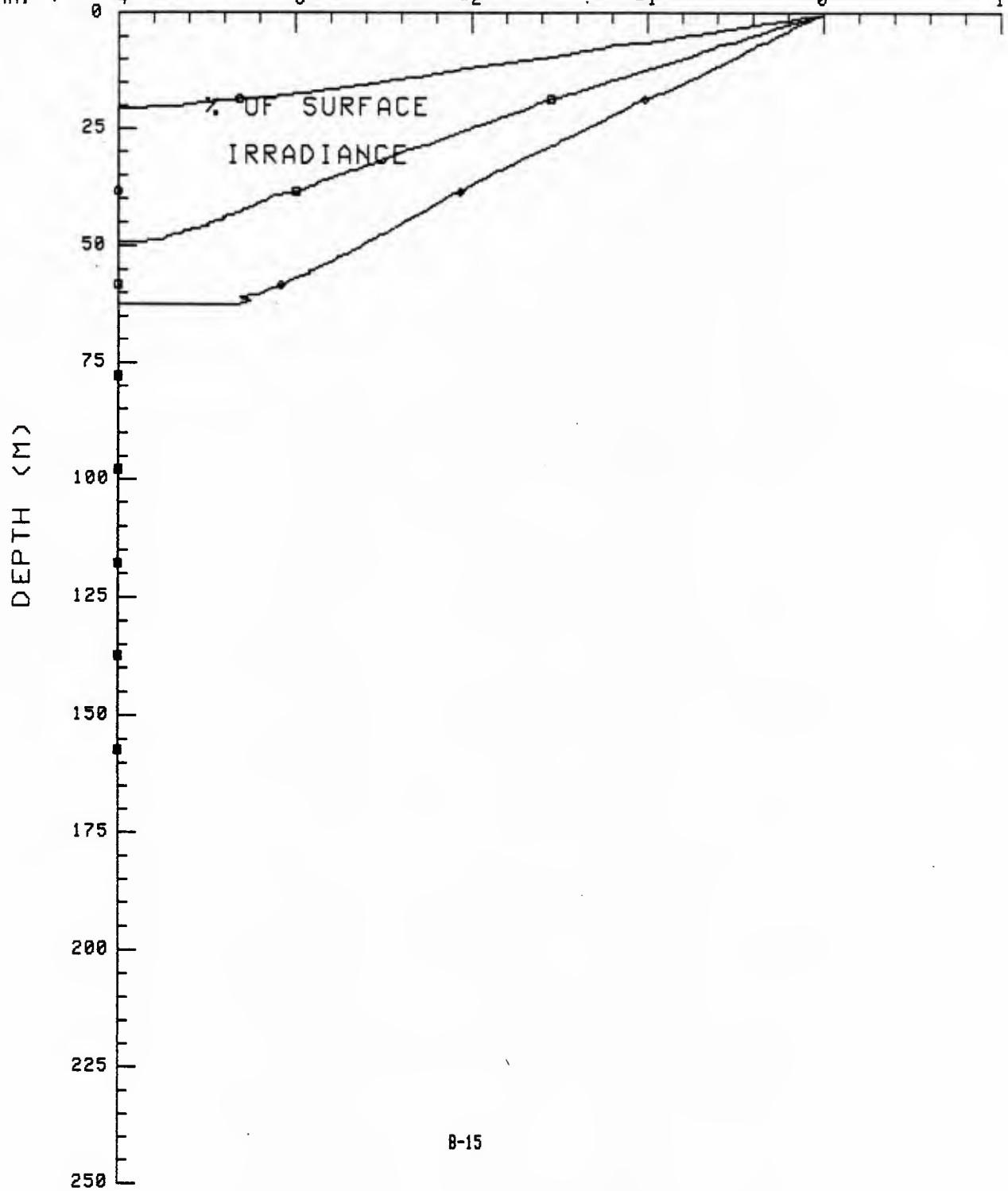


ODEX 3 STA 9 10-12-82 23452 UP CAST  
LATITUDE 35.1910N      LONGITUDE 121.0680W

LOG 625 NM. 0 -4 -3 -2 -1 0 1

LOG 589 NM. □ -4 -3 -2 -1 0 1

LOG 560 NM. ♦ -4 -3 -2 -1 0 1

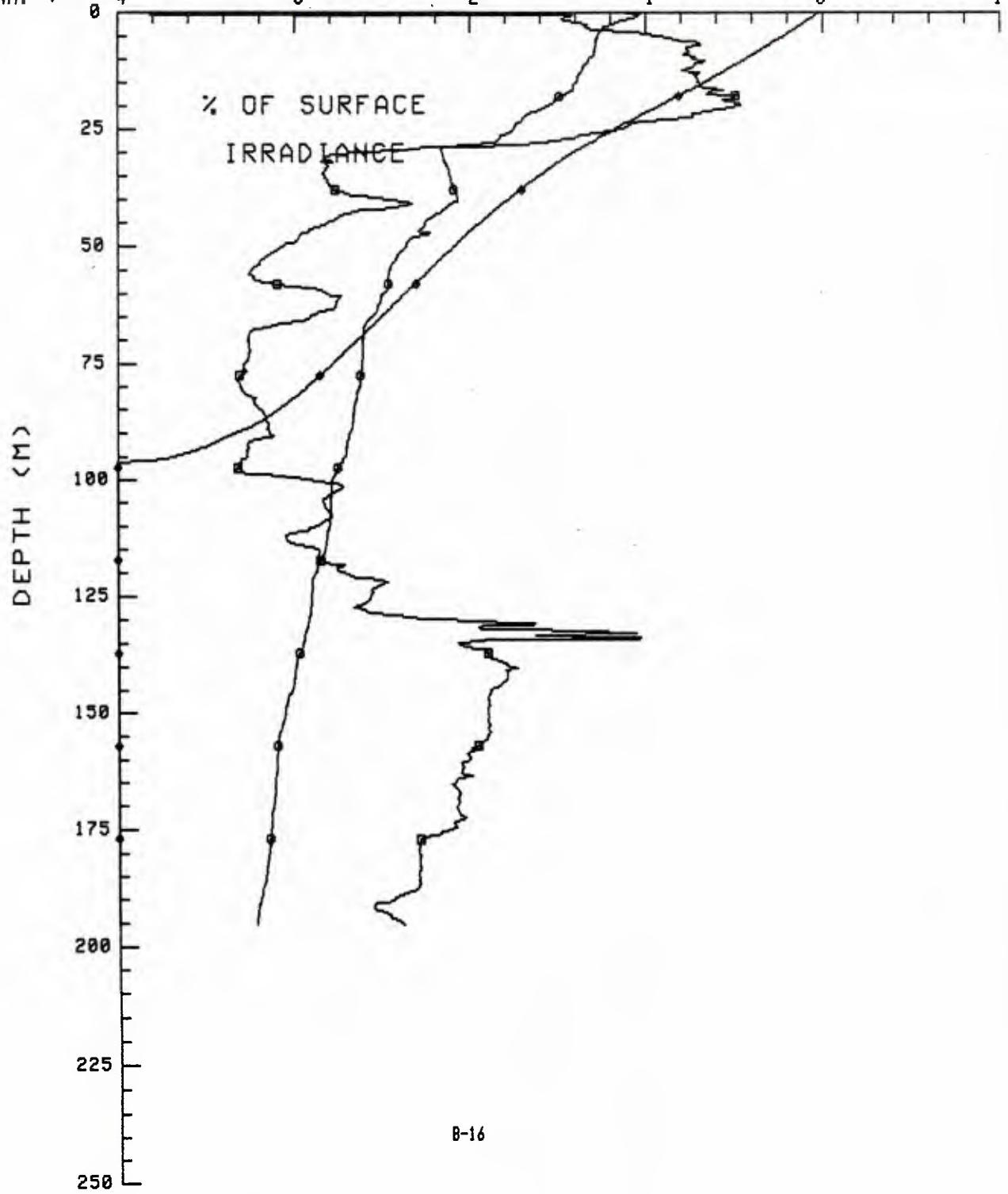


OODEX 3 STA 9 10-12-82 2345Z UP CAST

LATITUDE 35.1918N

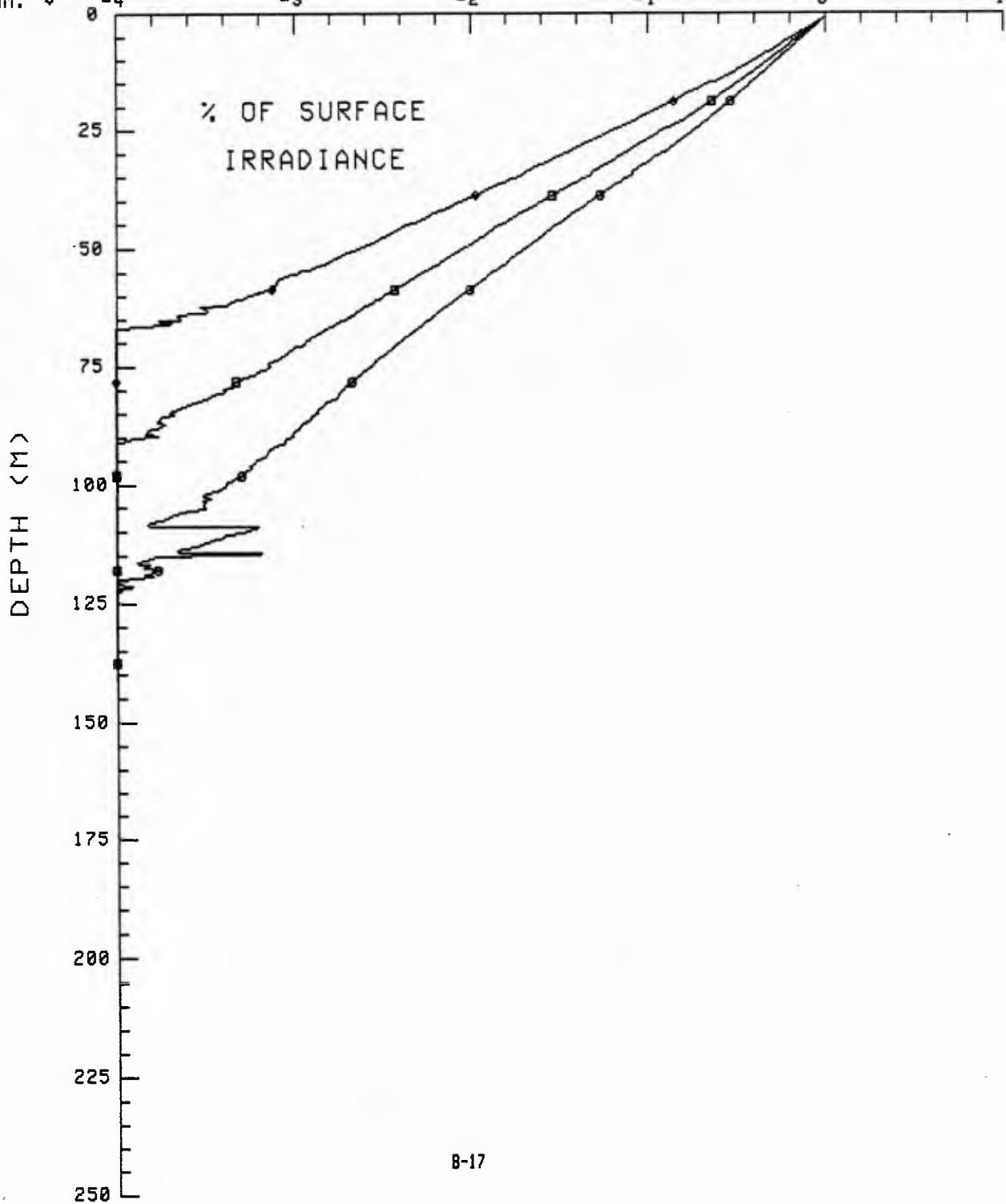
LONGITUDE 121.8688W

TEMP. °C 7 10 13 16 19 22  
C 665 \*3 0 .35 .44 .53 .62 .71 .8  
LOG 488 NM. 0 -4 -3 -2 -1 0 1



ODEX 3 STA 14 18-14-82 2240Z DN CAST  
LATITUDE 34.5890N LONGITUDE 121.1303W

LOG 465 NM.	○	-4	-3	-2	-1	0	1
LOG 441 NM.	□	-4	-3	-2	-1	0	1
LOG 410 NM.	◊	-4	-3	-2	-1	0	1



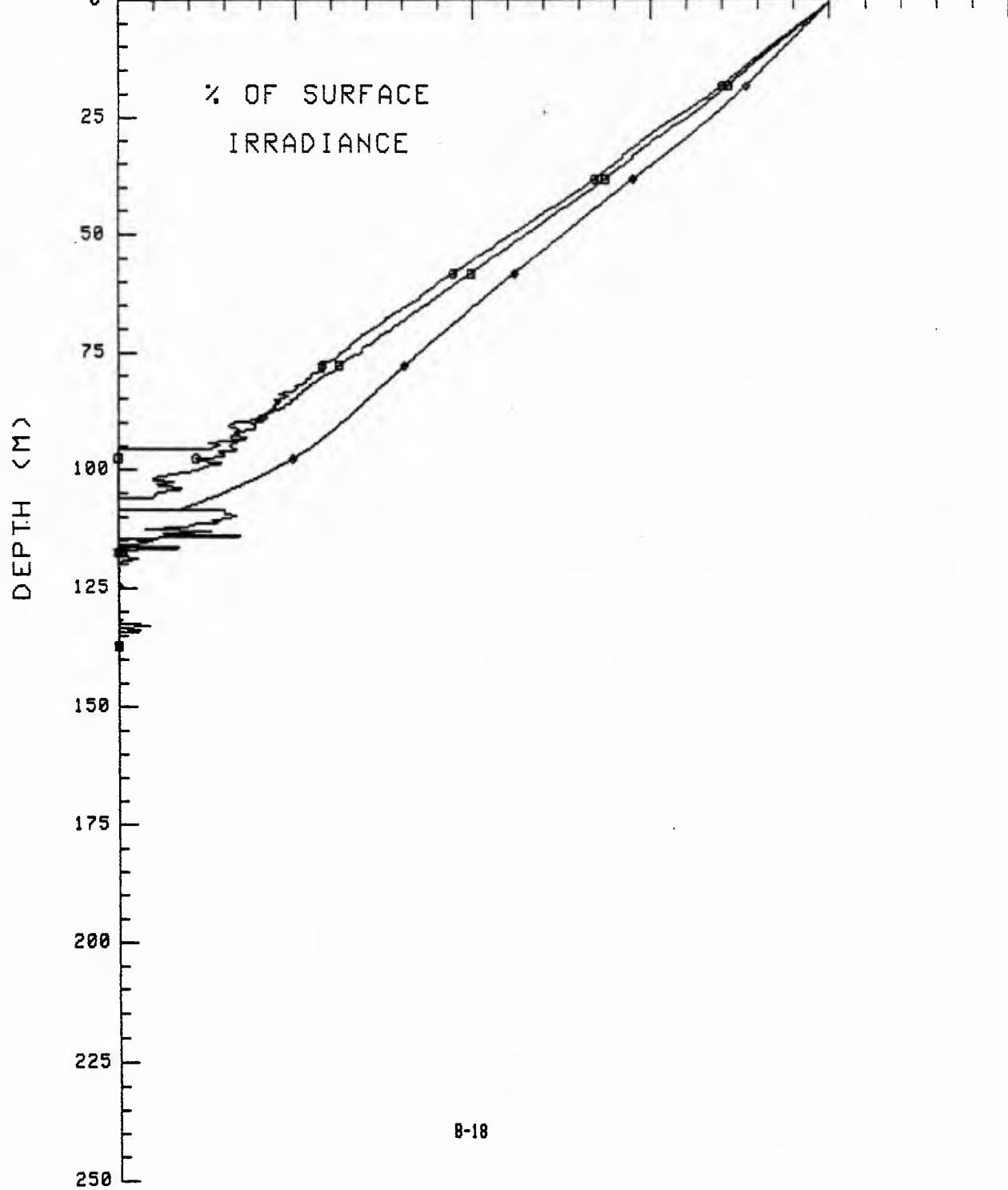
ODEX 3 STA 14 10-14-82 2248Z DN CAST

LATITUDE 34.5890N

LONGITUDE 121.1303W

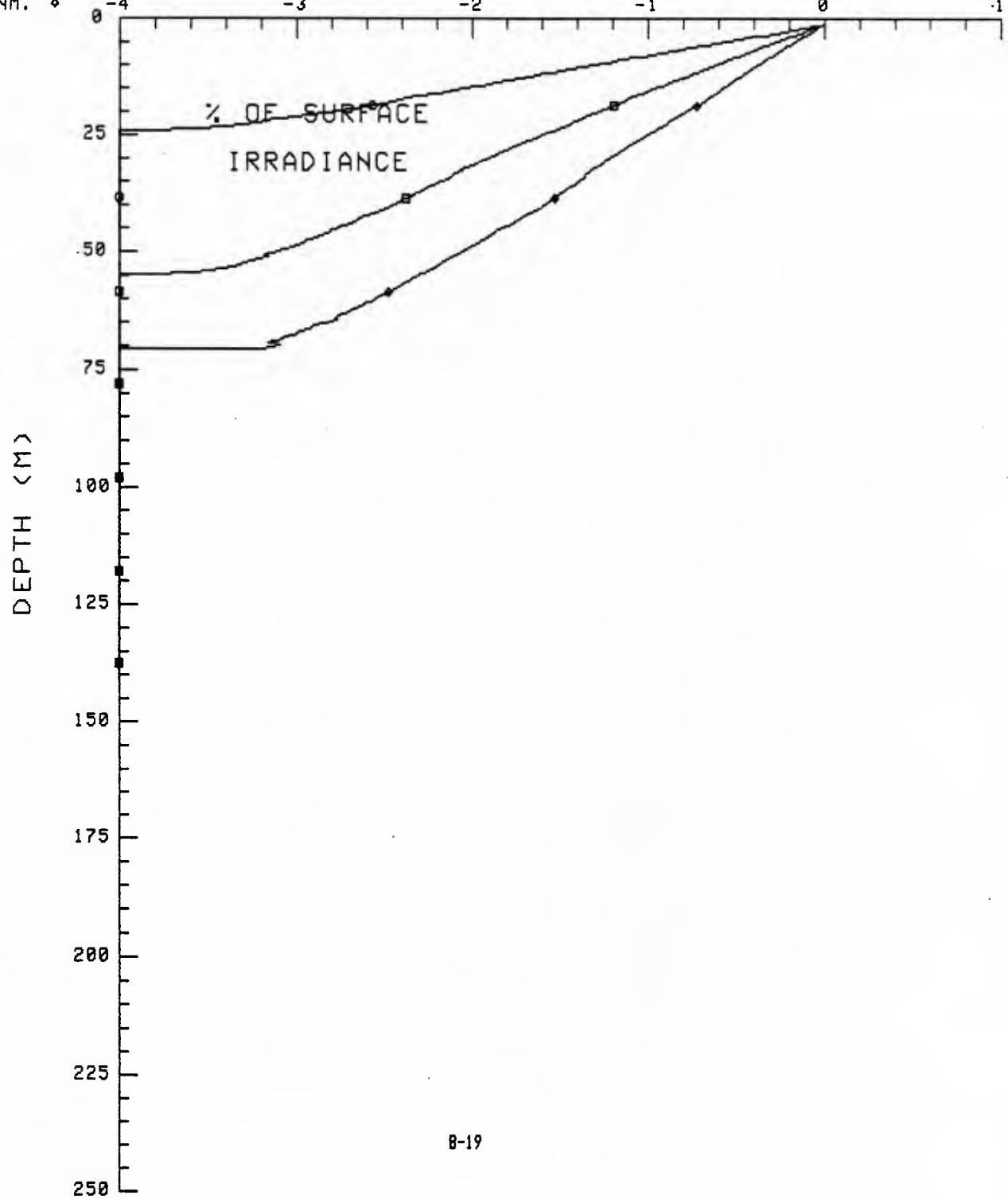
LOG 540 NM. o -4  
LOG 520 NM. □ -4  
LOG 488 NM. ♦ -4

-3 -2 -1 0 1  
-3 -2 -1 0 1  
-3 -2 -1 0 1



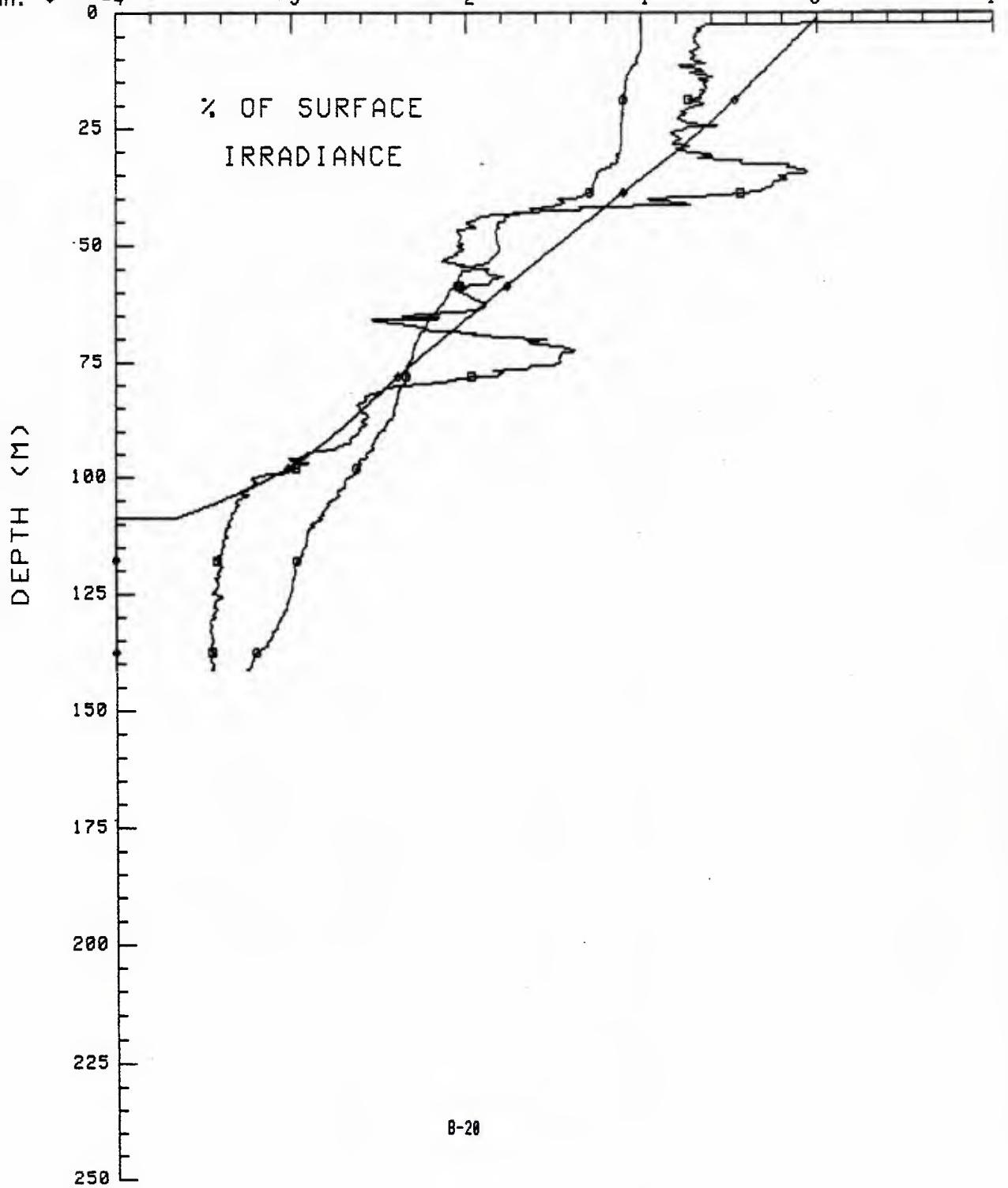
ODEX 3 STA 14 18-14-82 2240Z DN CAST  
LATITUDE 34.5890N LONGITUDE 121.1383W

LOG 625 NM. 0 -4 -3 -2 -1 0 1  
LOG 589 NM. □ -4 -3 -2 -1 0 1  
LOG 560 NM. ♦ -4 -3 -2 -1 0 1



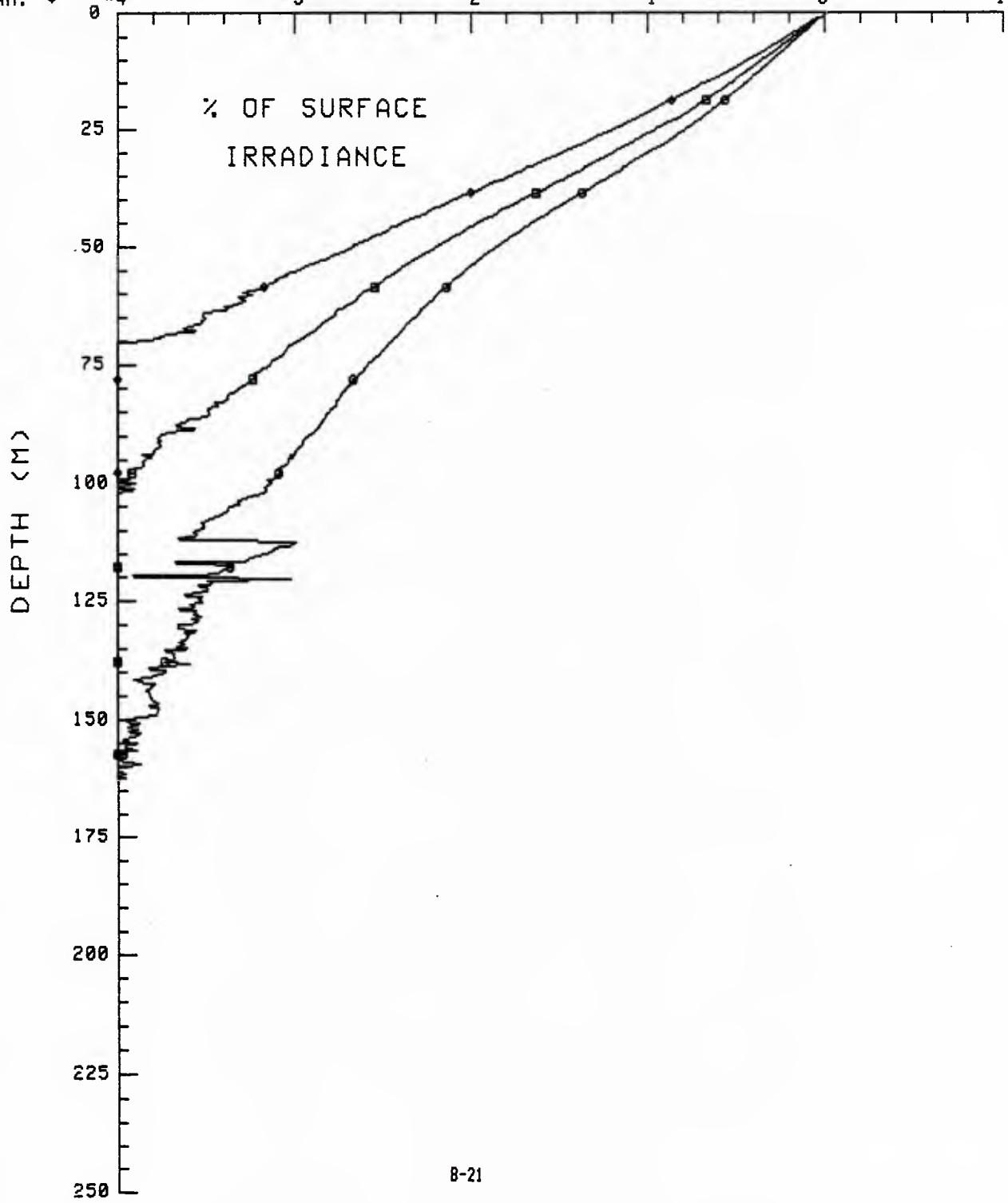
ODEX 3 STA 14 10-14-82 2248Z DN CAST  
LATITUDE 34.5890N      LONGITUDE 121.1383W

TEMP. ° 7 10 13 16 19 22  
C 665 \*3 □ .35 .41 .47 .53 .59 .65  
LOG 488 NM. ° -4 -3 -2 -1 0 1

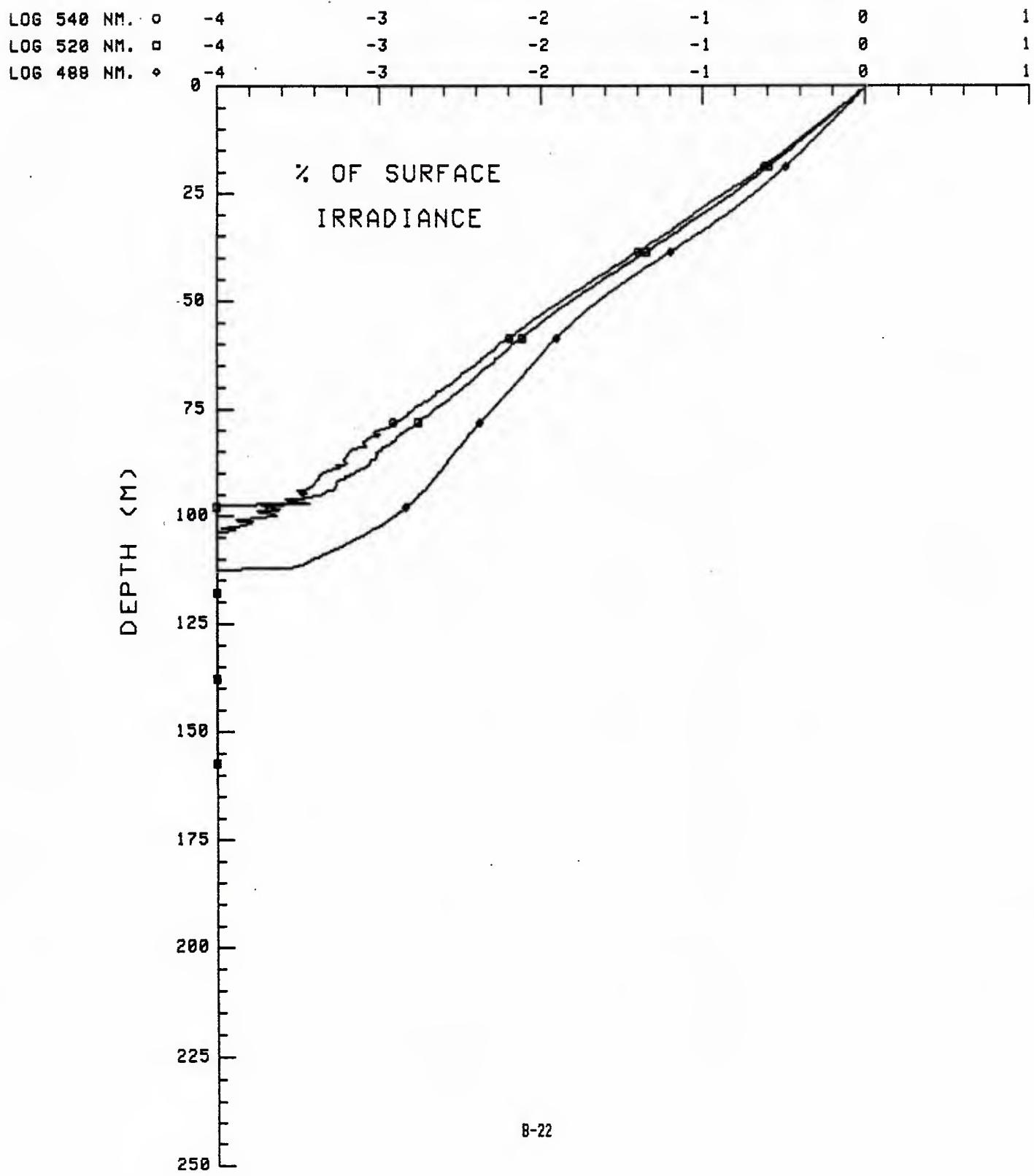


ODEX 3 STA 19 18-15-82 17052 DN CAST  
LATITUDE 34.5870N LONGITUDE 122.4250W

LOG 465 NM. o -4 -3 -2 -1 0 1  
LOG 441 NM. □ -4 -3 -2 -1 0 1  
LOG 410 NM. ♦ -4 -3 -2 -1 0 1

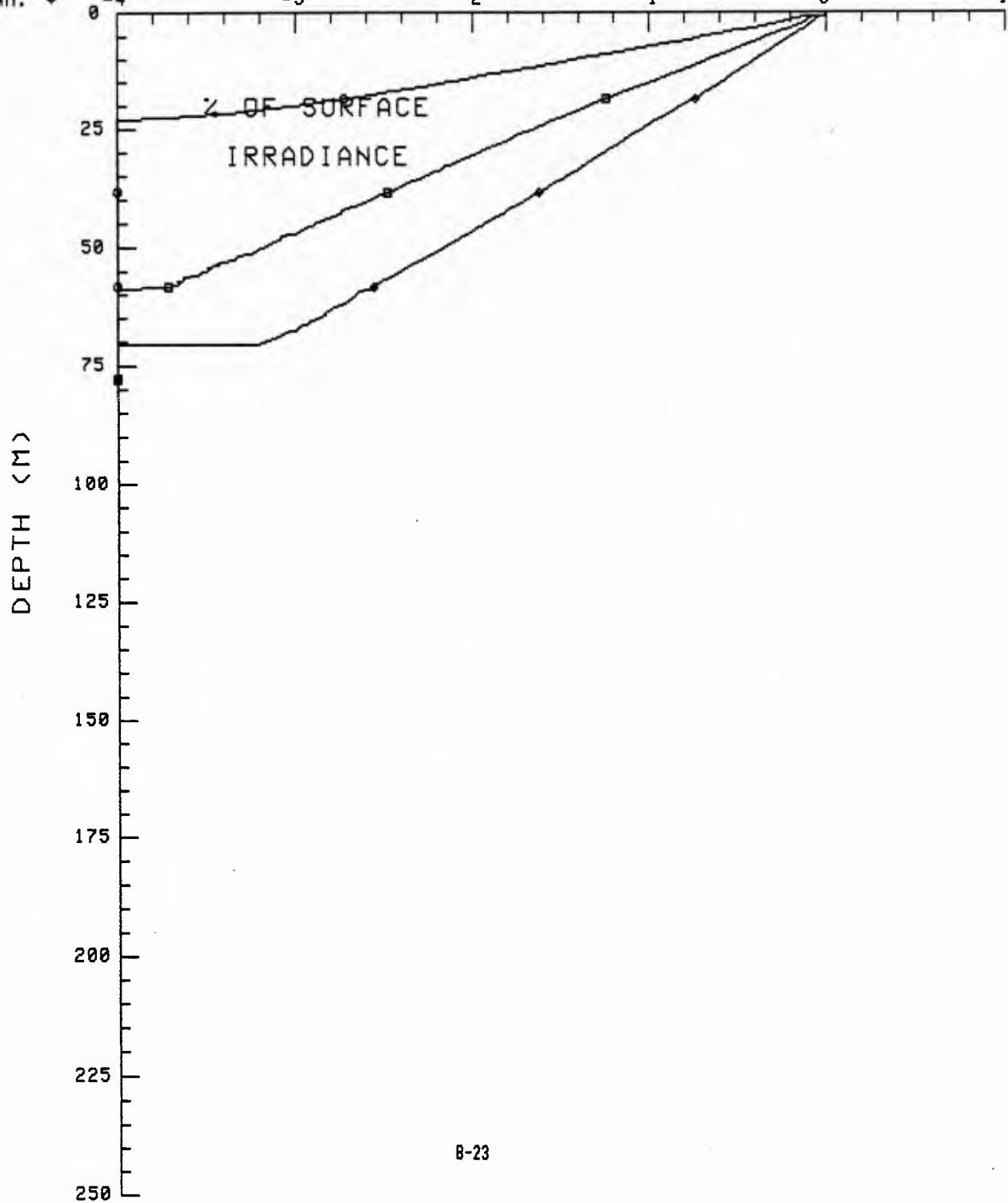


ODEX 3 STA 19 10-15-82 1705Z DN CAST  
LATITUDE 34.5870N      LONGITUDE 122.4250W



OODEX 3 STA 19 10-15-82 1705Z ON CAST  
LATITUDE 34.587N      LONGITUDE 122.425W

LOG 625 NM. o -4 -3 -2 -1 0 1  
LOG 589 NM. □ -4 -3 -2 -1 0 1  
LOG 560 NM. ♦ -4 -3 -2 -1 0 1

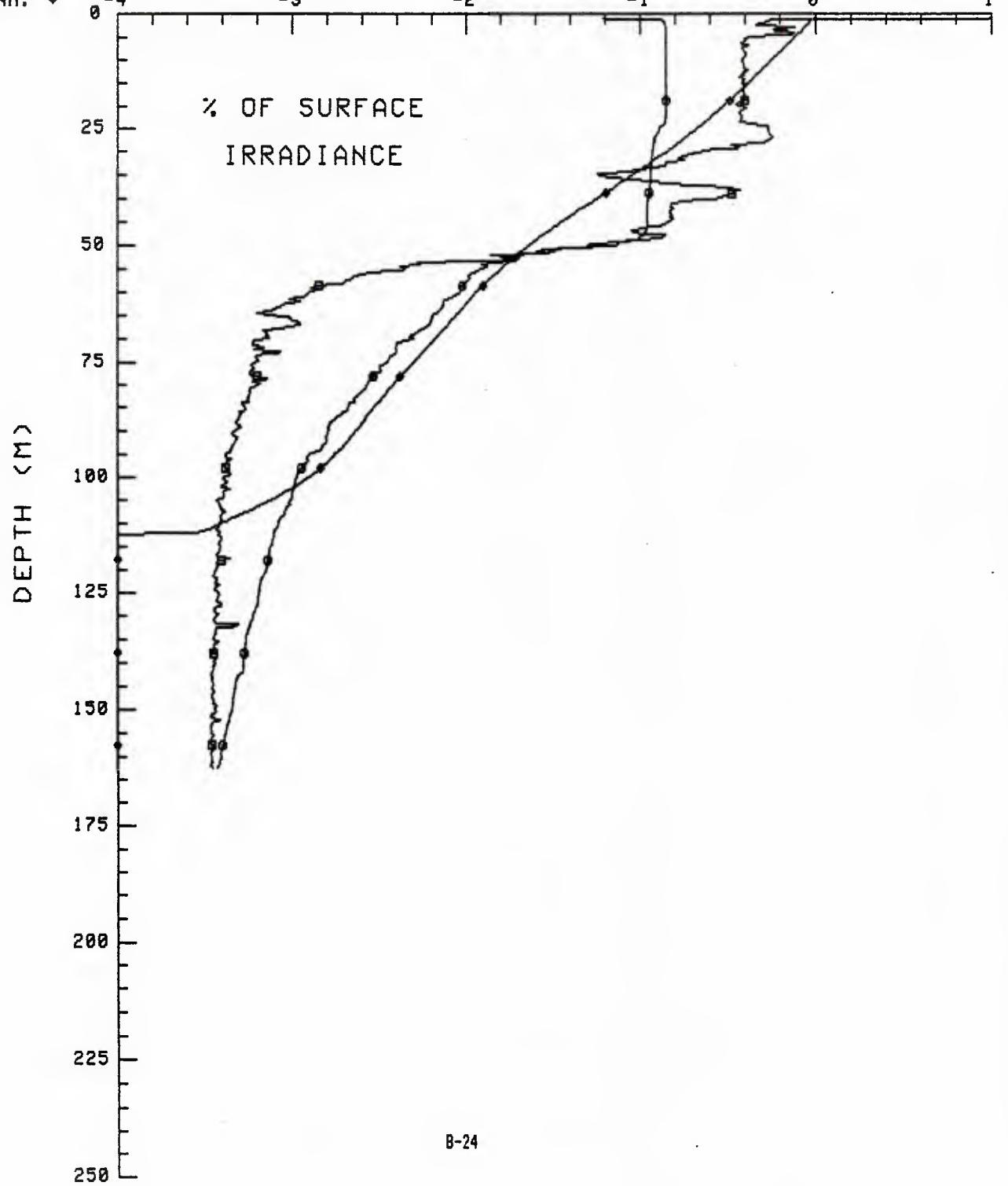


ODEX 3 STA 19 10-15-82 1705Z DN CAST

LATITUDE 34.5870N

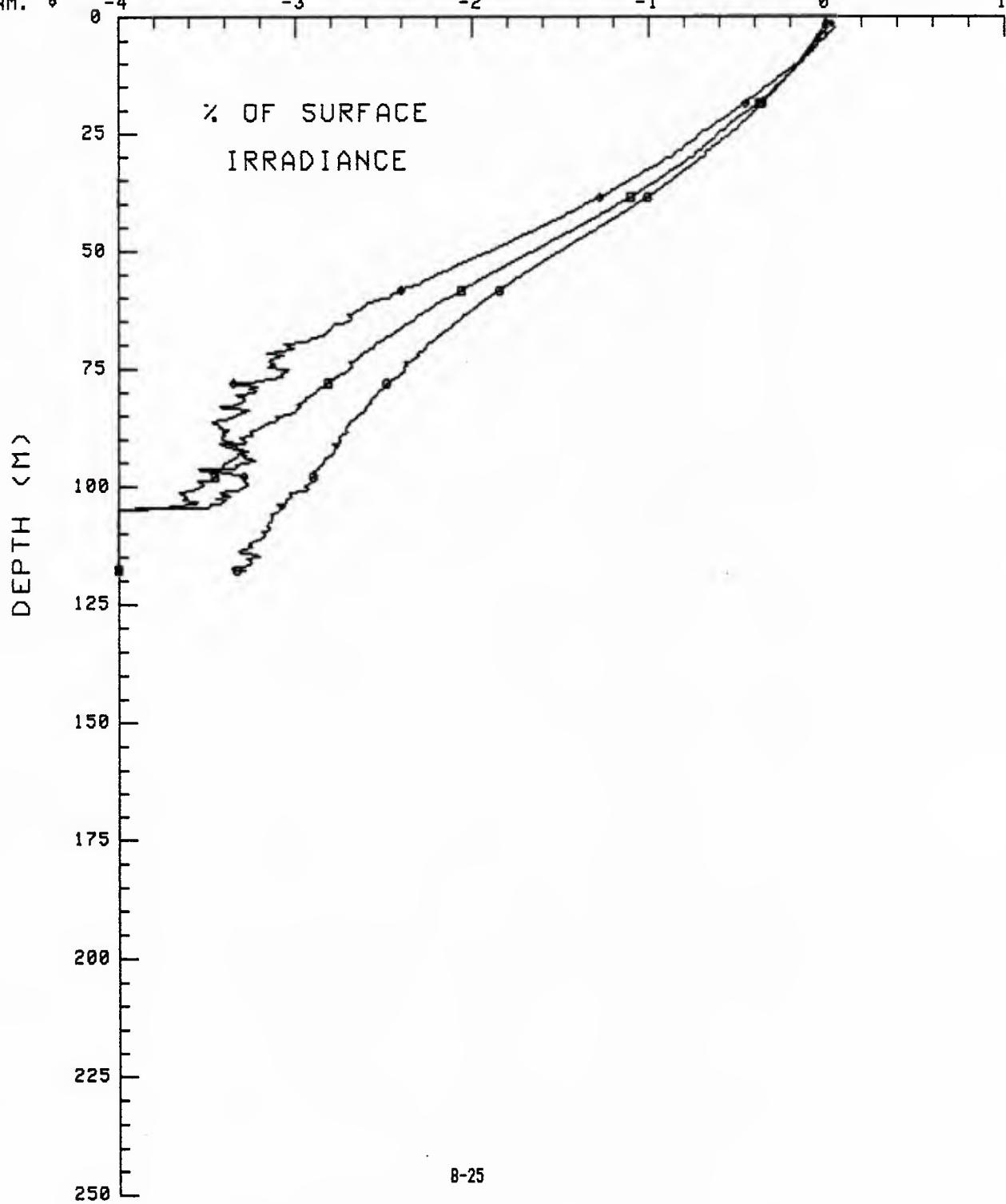
LONGITUDE 122.4250W

TEMP. °	7	10	13	16	19	22
C 665 #3 □	.35	.41	.47	.53	.59	.65
LOG 488 NM. ♦	-4	-3	-2	-1	0	1



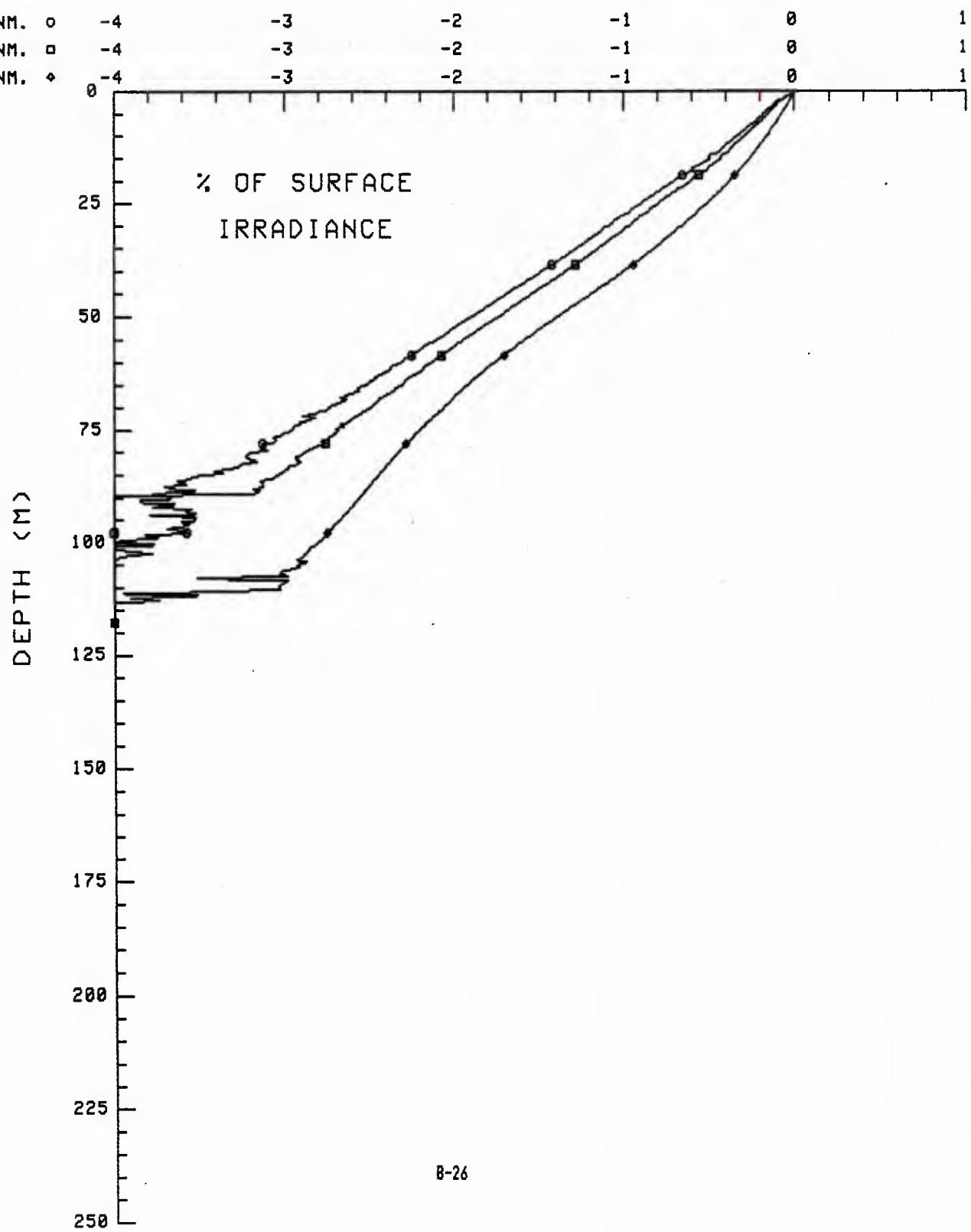
ODEX 3 STA 21 DN CAST 10-16-82 00462  
LATITUDE 34.5866N      LONGITUDE 123.1436W

LOG 465 NM.	○	-4	-3	-2	-1	0	1
LOG 441 NM.	□	-4	-3	-2	-1	0	1
LOG 410 NM.	◊	-4	-3	-2	-1	0	1

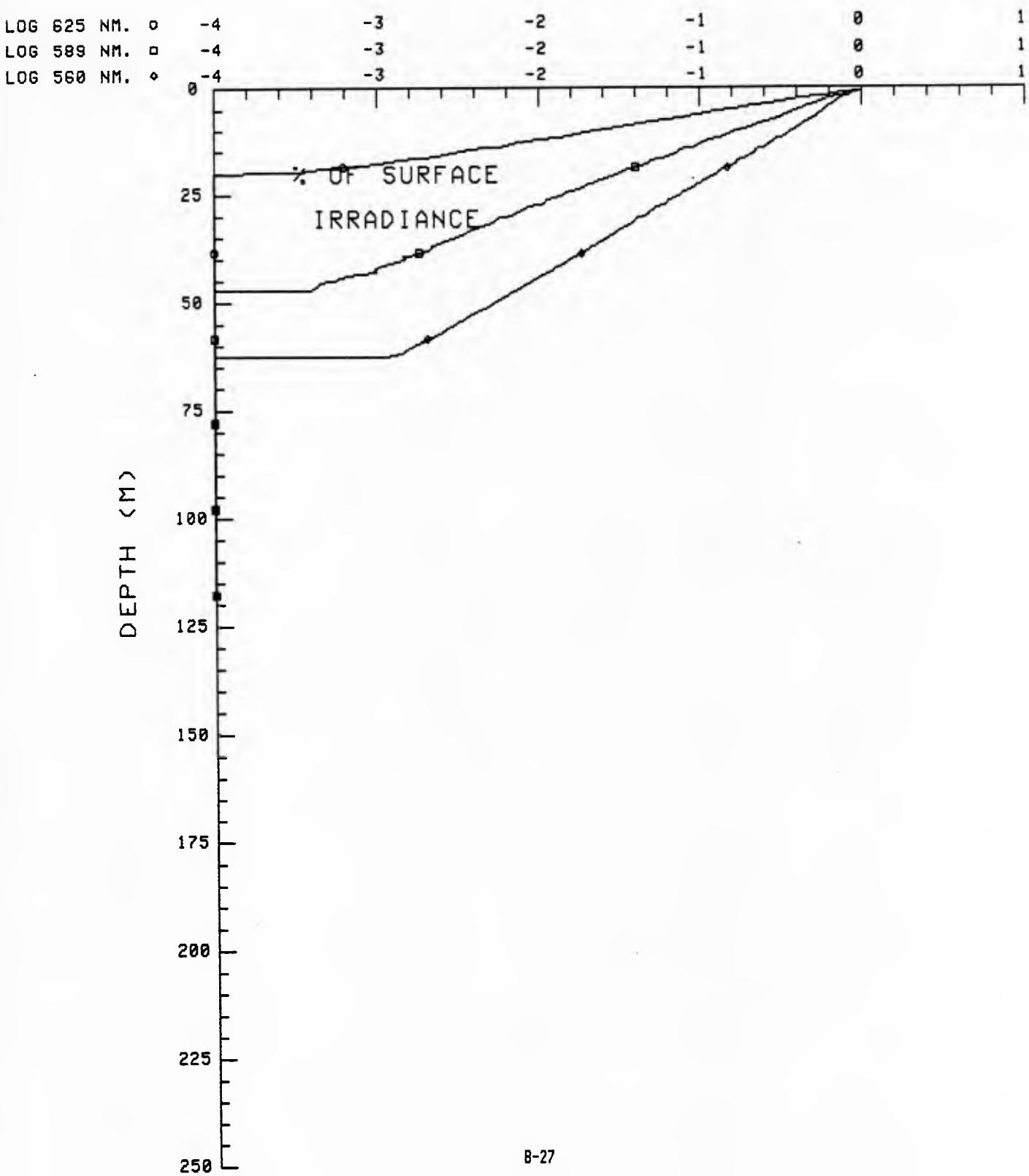


ODEX 3 STA 21 DN CAST 10-16-82 00462  
LATITUDE 34.5866N LONGITUDE 123.1436W

LOG 540 NM. o -4  
LOG 520 NM. □ -4  
LOG 488 NM. ♦ -4

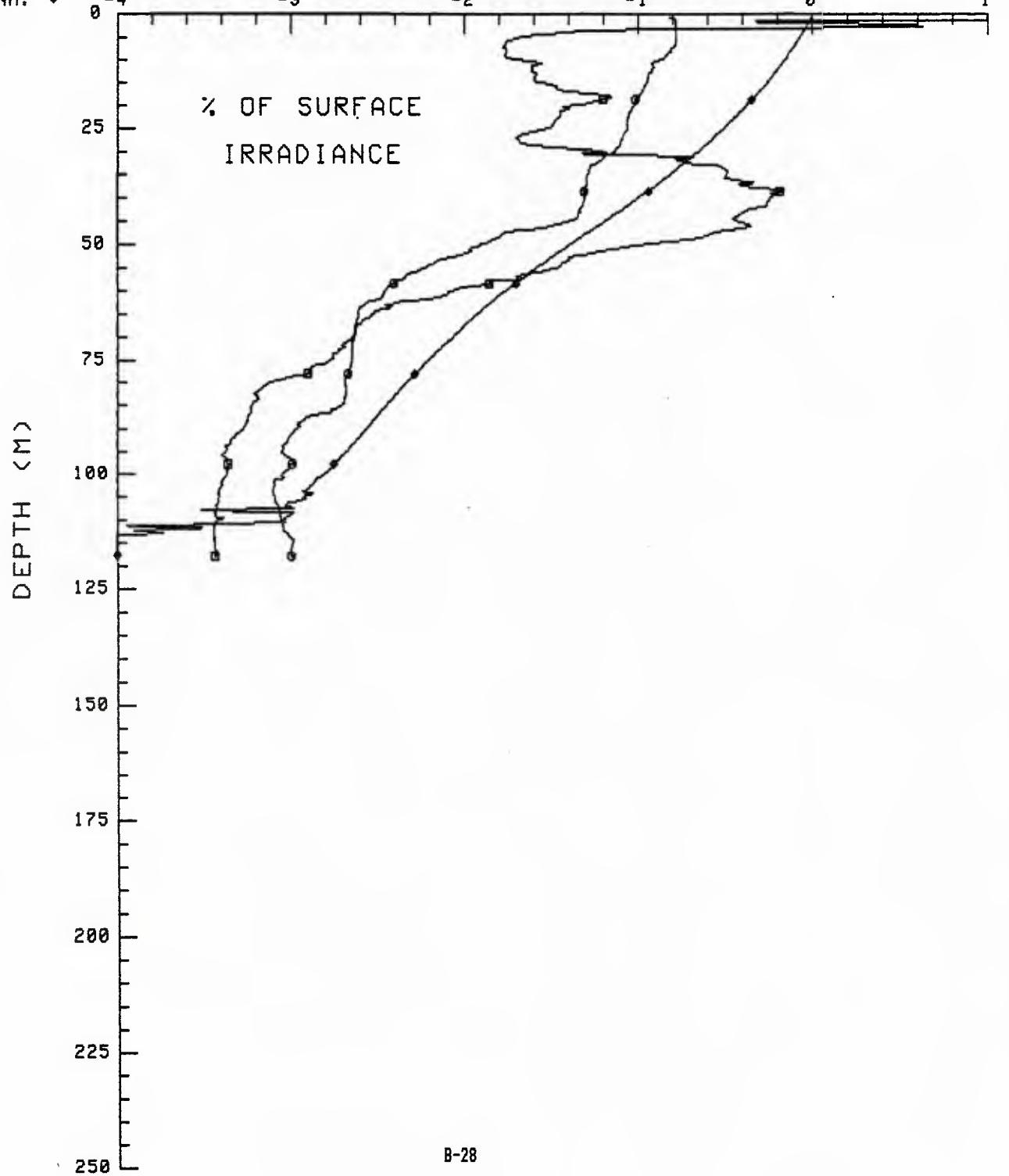


ODEX 3 STA 21 DN CAST 10-16-82 00462  
LATITUDE 34.5866N LONGITUDE 123.1436W



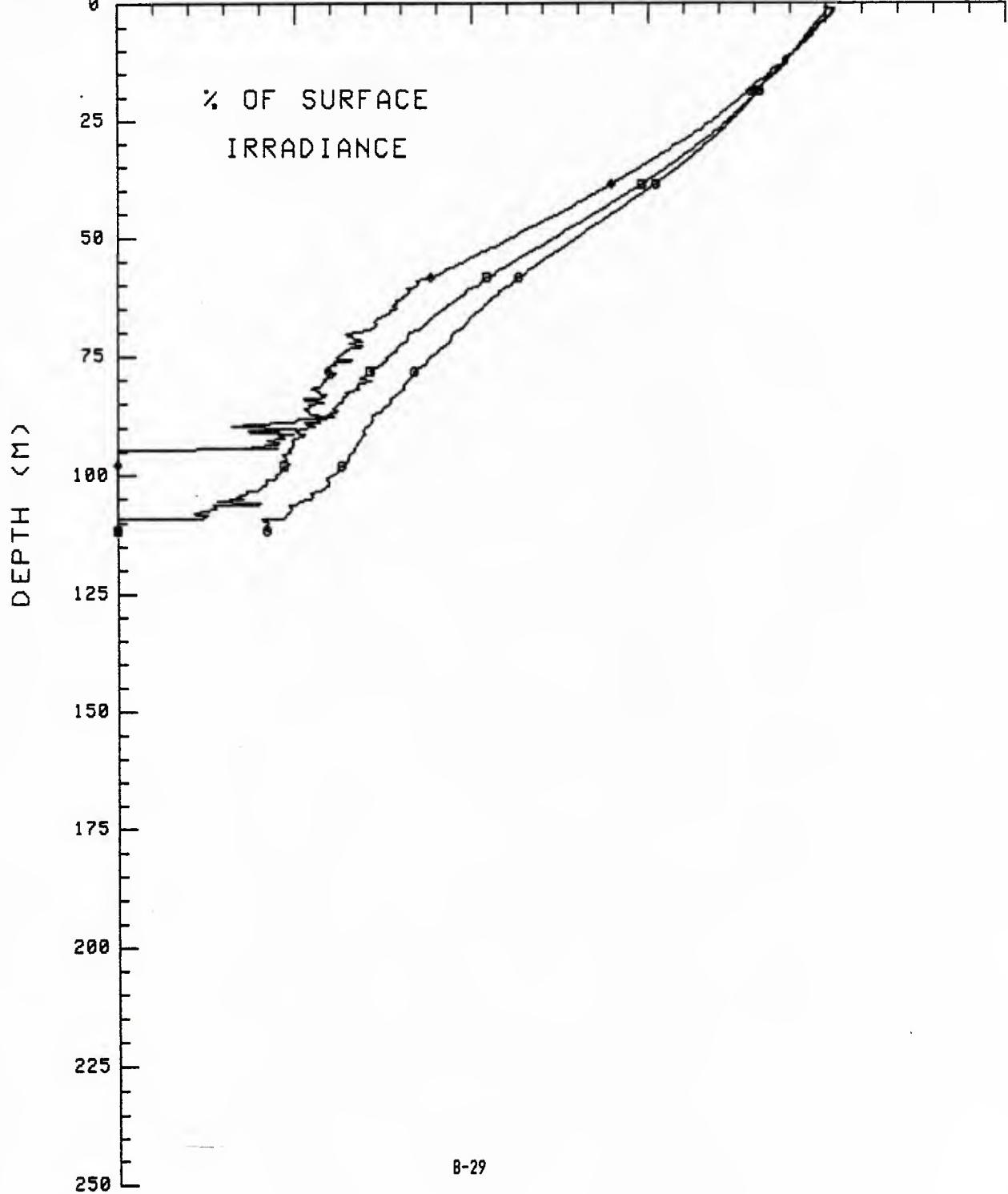
ODEX 3 STA 21 DN CAST 10-16-82 88462  
LATITUDE 34.586N      LONGITUDE 123.143W

TEMP. °C 7 10 13 16 19 22  
C 665 #3 ° .35 .41 .47 .53 .59 .65  
LOG 488 NM. ° -4 -3 -2 -1 0 1



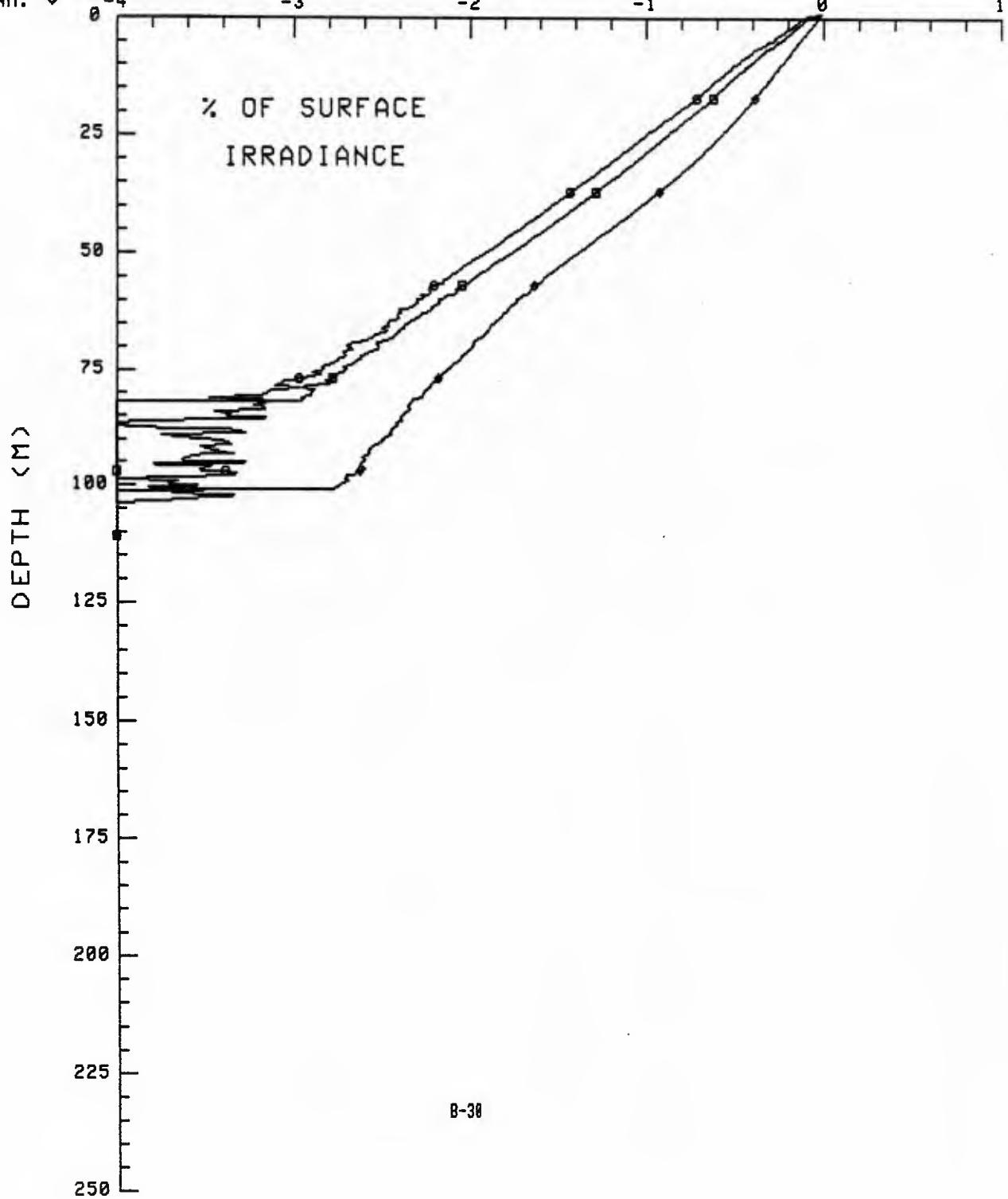
ODEX 3 STA 21 UP CAST 10-16-82 00582  
LATITUDE 34.5864N      LONGITUDE 123.1436W

LOG 465 NM.	o	-4	-3	-2	-1	0	1
LOG 441 NM.	□	-4	-3	-2	-1	0	1
LOG 410 NM.	♦	-4	-3	-2	-1	0	1

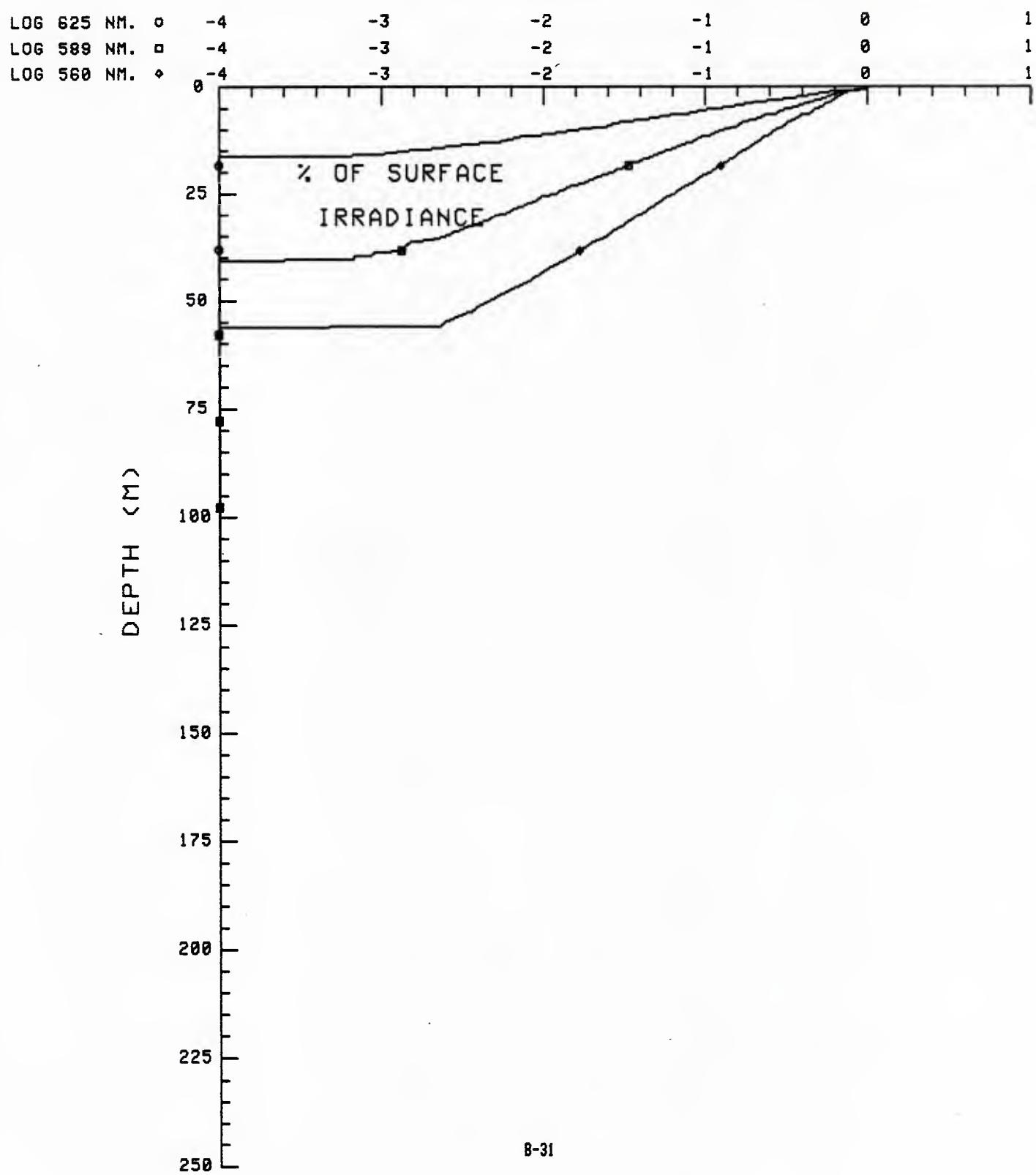


ODEX 3 STA 21 UP CAST 10-16-82 0058Z  
LATITUDE 34.5864N      LONGITUDE 123.1436W

LOG 540 NM. 0 -4 -3 -2 -1 0 1  
LOG 520 NM. □ -4 -3 -2 -1 0 1  
LOG 488 NM. ♦ -4 -3 -2 -1 0 1



ODEX 3 STA 21 UP CAST 10-16-82 00582  
LATITUDE 34.5864N LONGITUDE 123.1436W



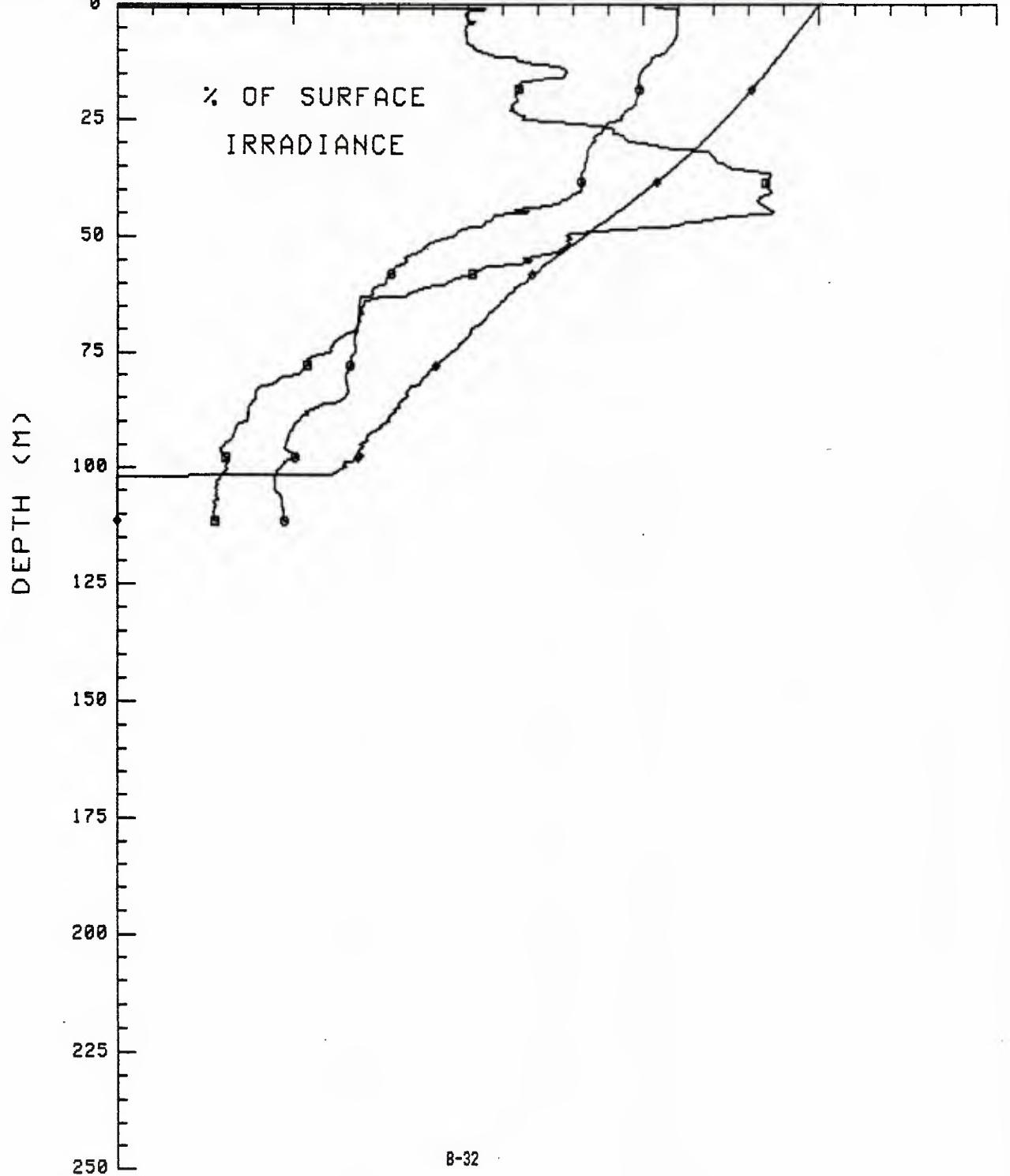
ODEX 3 STA 21 UP CAST 10-16-82 00582

LATITUDE 34.5864N

LONGITUDE 123.1436W

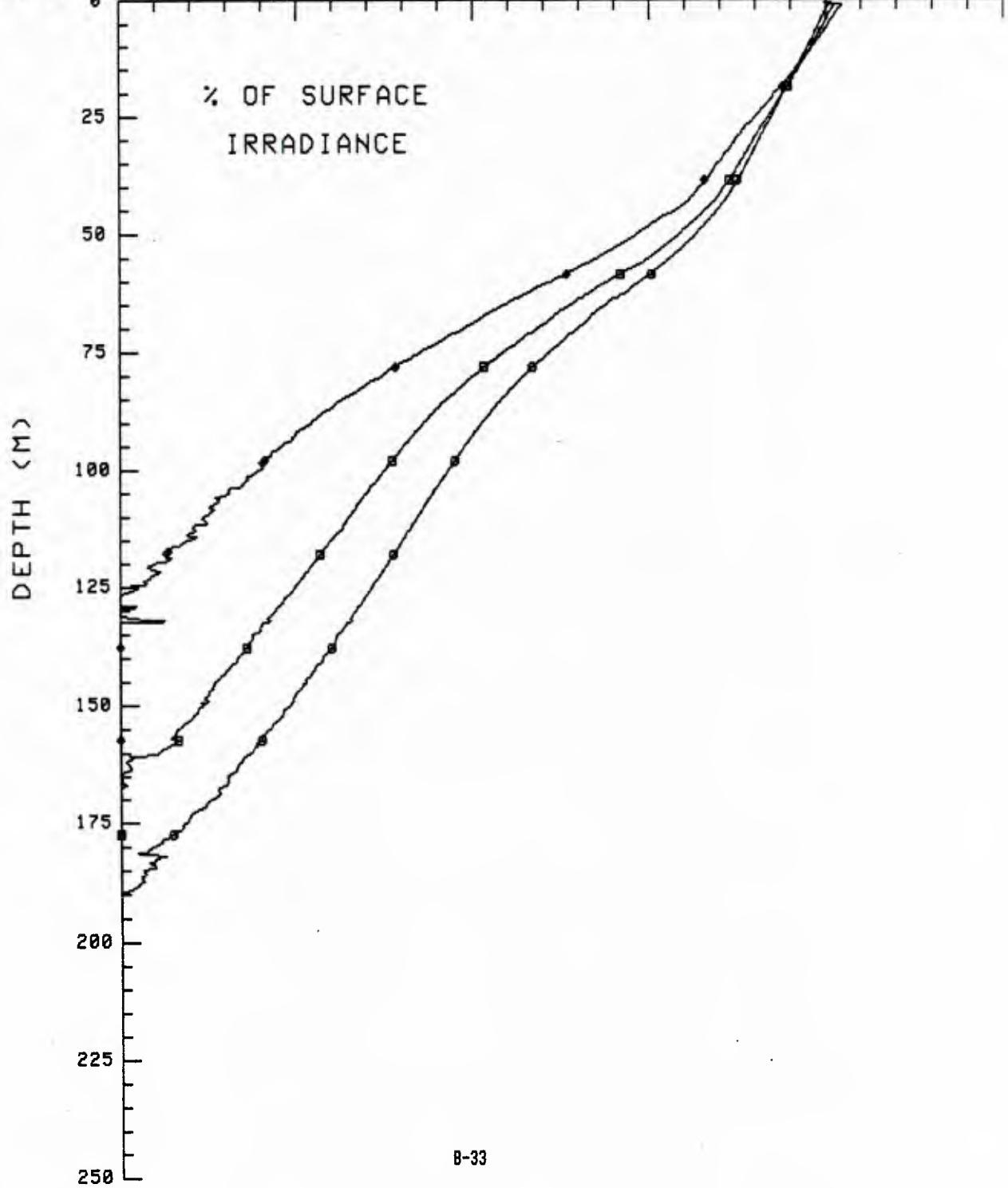
TEMP. °C 665 \*3 LOG 488 NM. °

7	10	13	16	19	22
.35	.41	.47	.53	.59	.65
-4	-3	-2	-1	0	1



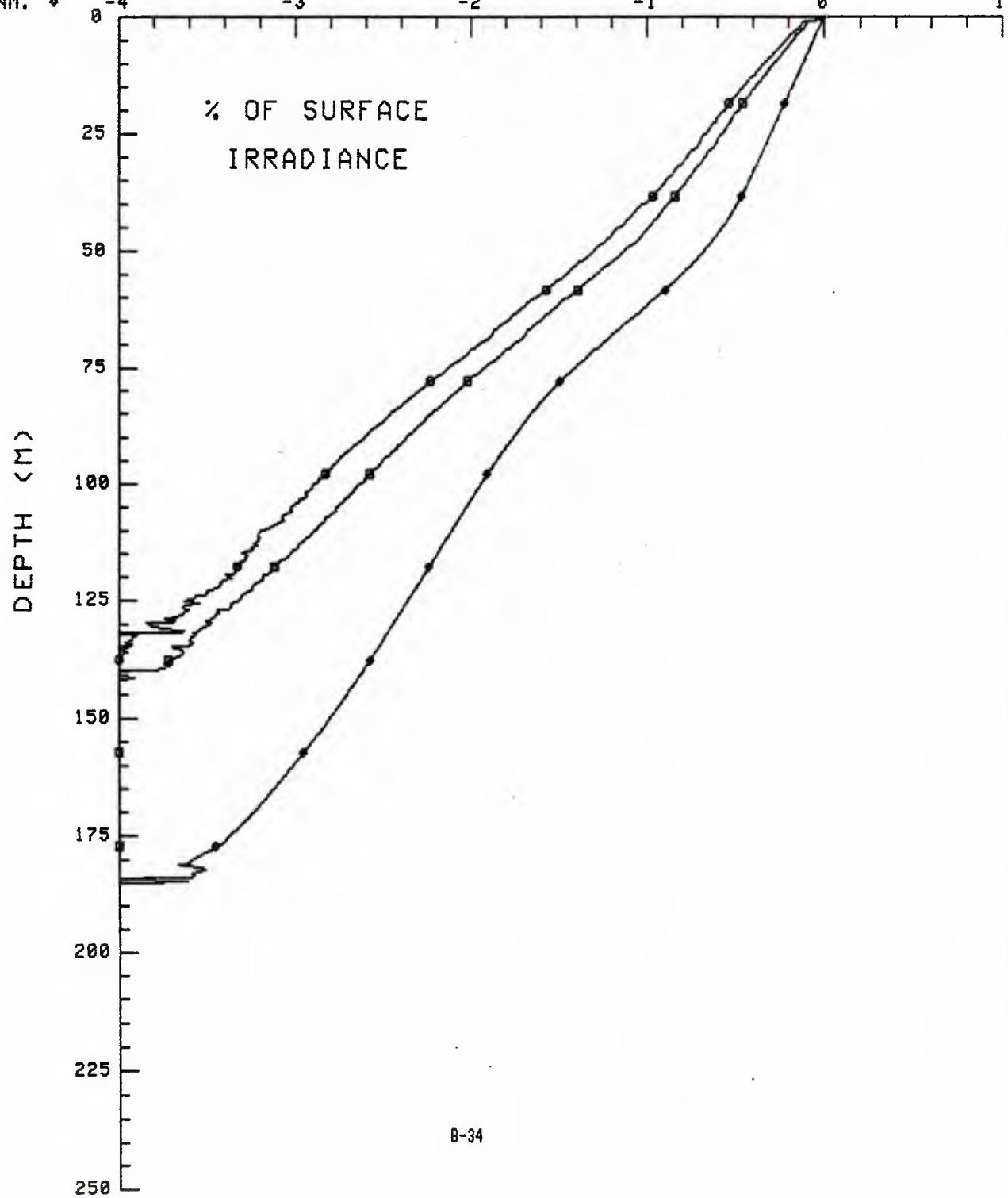
ODEX 3 STA 25 UP CAST 10-16-82 2134Z  
LATITUDE 35.0965N LONGITUDE 124.4262W

LOG 465 NM.	0	-4	-3	-2	-1	0	1
LOG 441 NM.	0	-4	-3	-2	-1	0	1
LOG 410 NM.	0	-4	-3	-2	-1	0	1

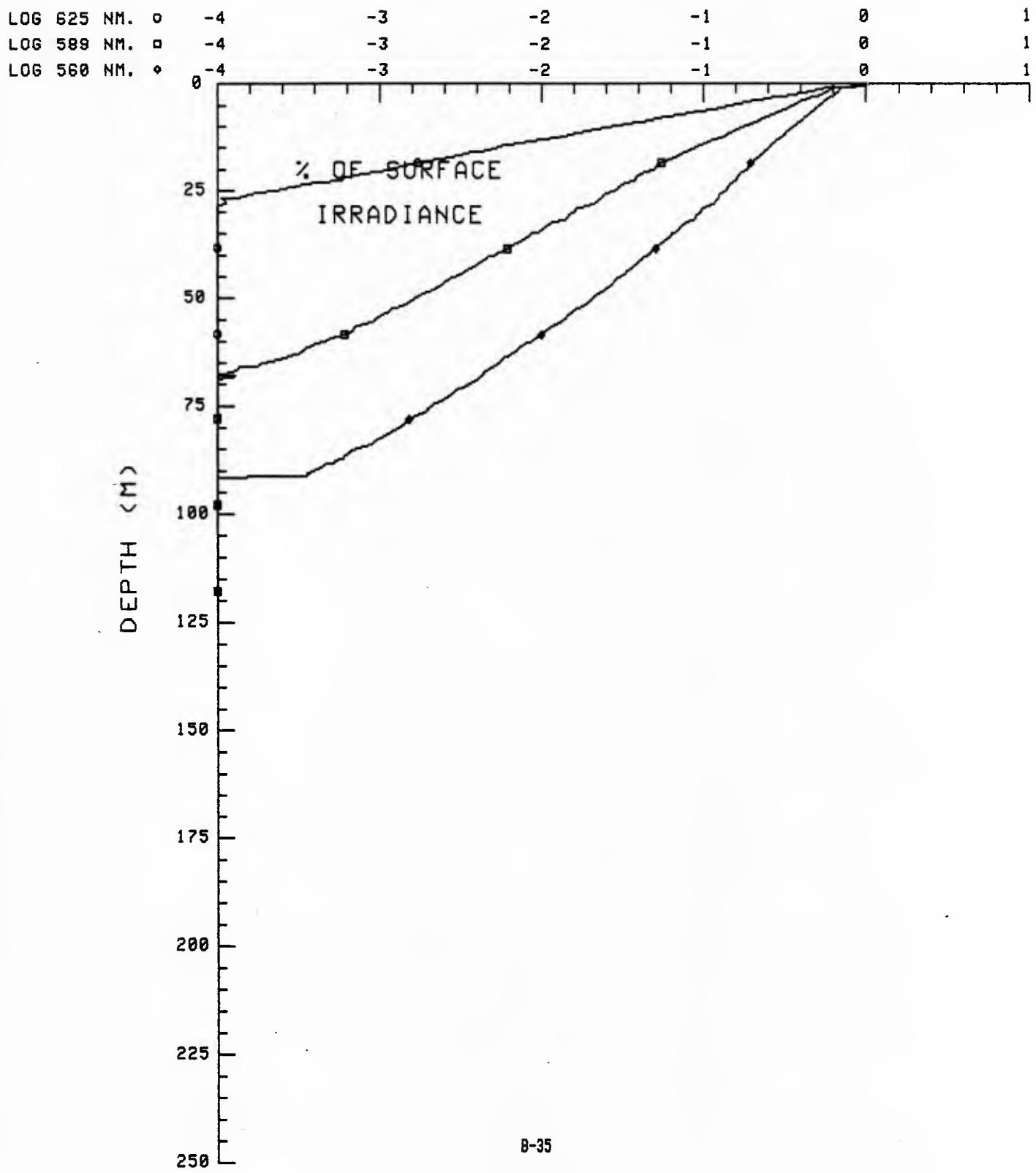


ODEX 3 STA 25 UP CAST 10-16-82 21342  
LATITUDE 35.0965N LONGITUDE 124.4262W

LOG 540 NM.	0	-4	-3	-2	-1	0	1
LOG 520 NM.	□	-4	-3	-2	-1	0	1
LOG 488 NM.	♦	-4	-3	-2	-1	0	1



ODEX 3 STA 25 UP CAST 18-16-82 2134Z  
LATITUDE 35.0965N LONGITUDE 124.4262W

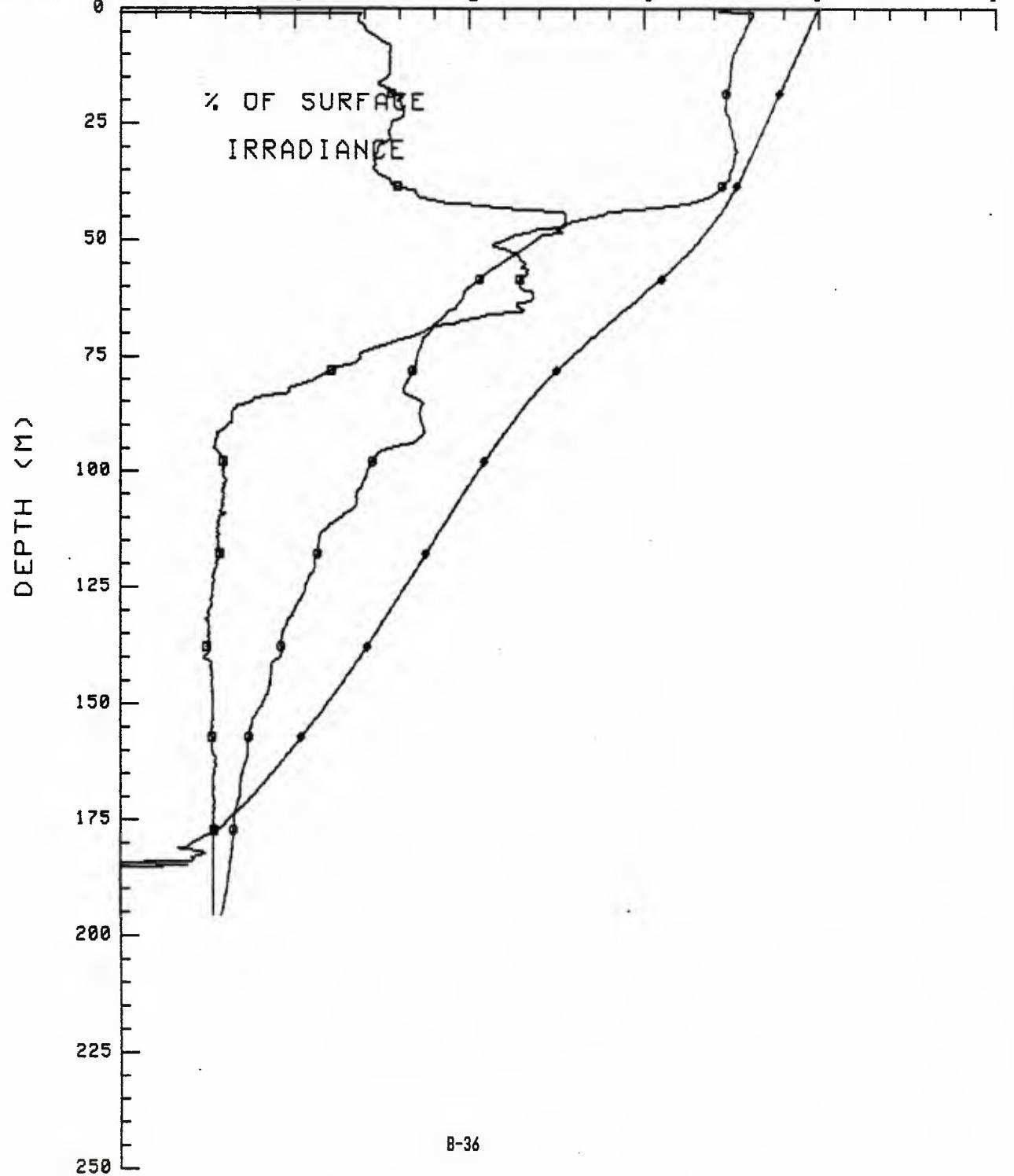


ODEX 3 STA 25 UP CAST 10-16-82 2134Z

LATITUDE 35.0965N

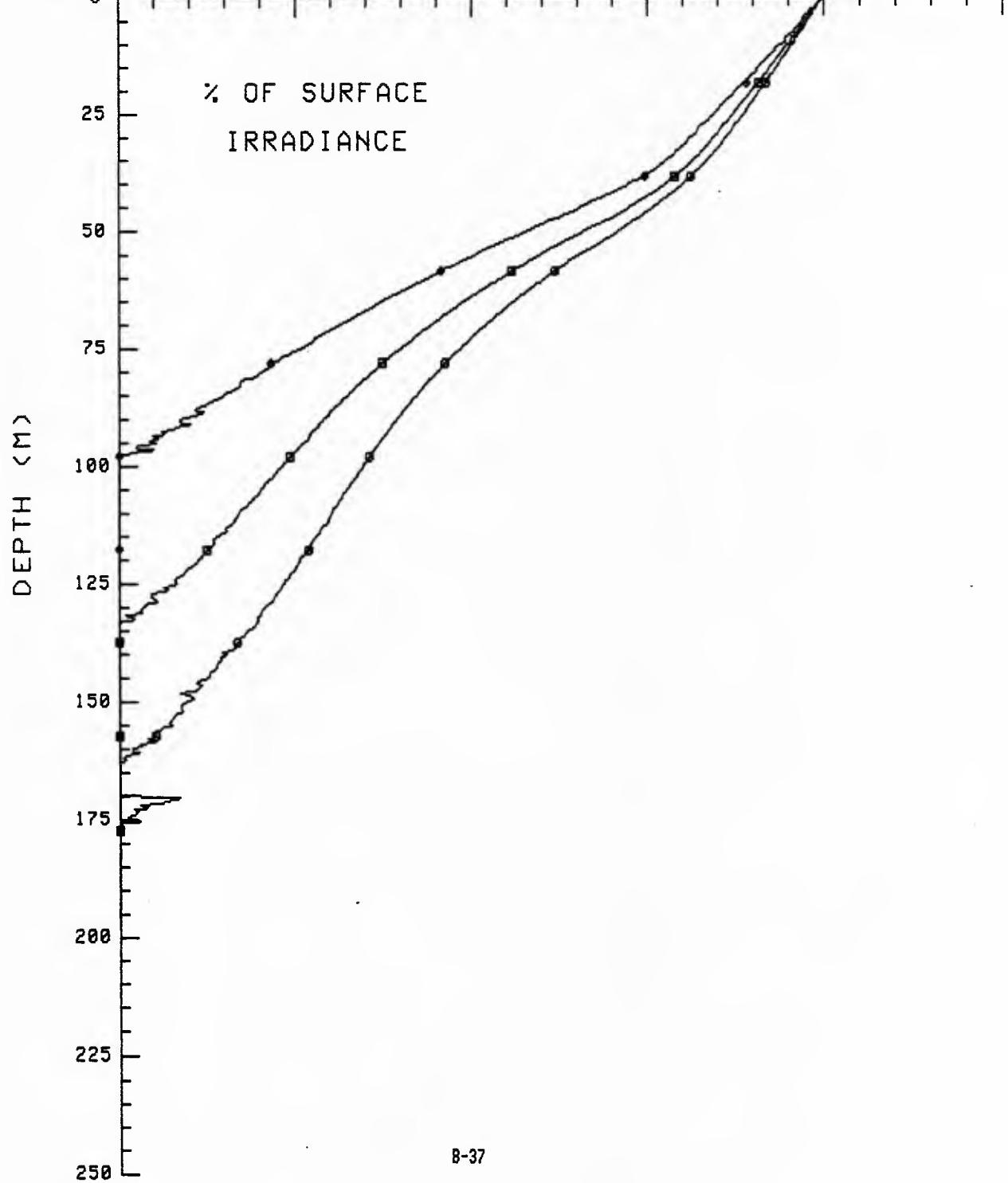
LONGITUDE 124.4262W

TEMP. °C	7	10	13	16	19	22
C 665 #3	.35	.41	.47	.53	.59	.65
LOG 488 NM.	0	-4	-3	-2	-1	0
DEPTH (M)	25	50	75	100	125	150
	175	200	225	250		



ODEX 3 STA 38 DN CAST 10-17-82 1830Z  
LATITUDE 34.2977N      LONGITUDE 123.4002W

LOG 465 NM.	o	-4	-3	-2	-1	0	1
LOG 441 NM.	□	-4	-3	-2	-1	0	1
LOG 410 NM.	♦	-4	-3	-2	-1	0	1



ODEX 3 STA 38 ON CAST 10-17-82 1830Z

LATITUDE 34.2977N

LONGITUDE 123.4002W

LOG 540 NM. o -4

-3

-2

-1

0

1

LOG 520 NM. □ -4

-3

-2

-1

0

1

LOG 488 NM. ♦ -4

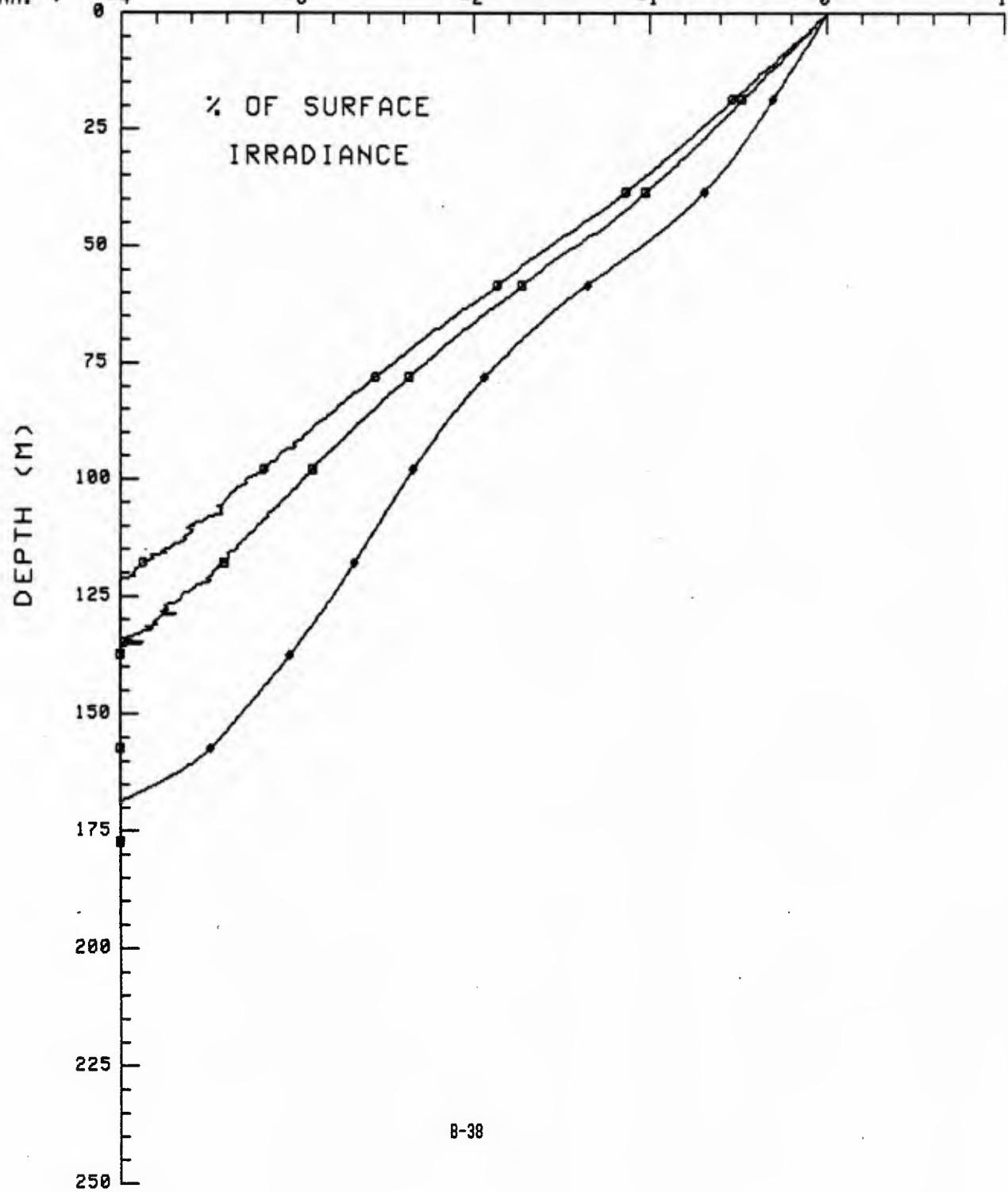
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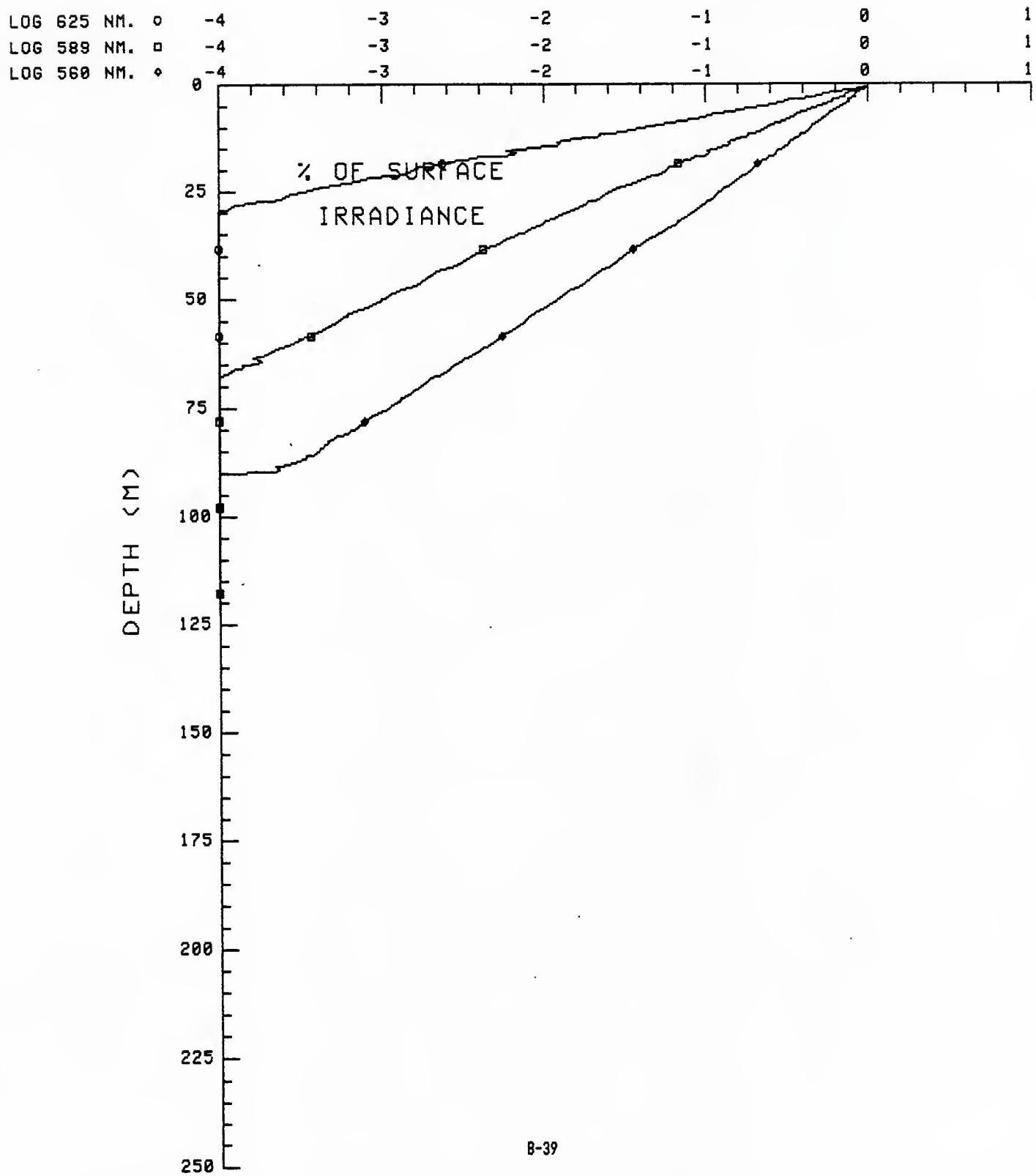
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ODEX 3 STA 30 DN CAST 10-17-82 1830Z  
LATITUDE 34.2977N LONGITUDE 123.4002W

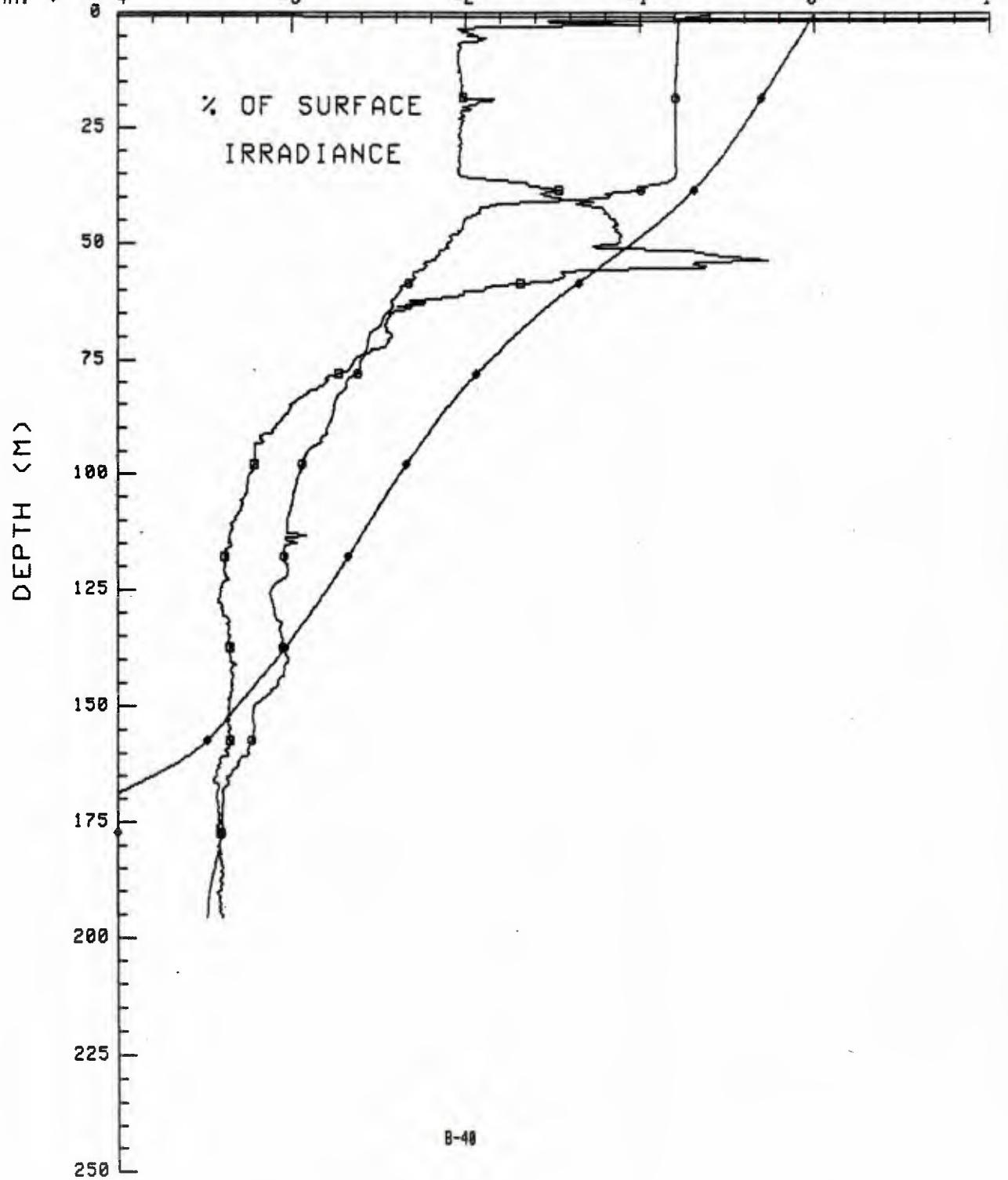


ODEX 3 STA 30 DN CAST 10-17-82 1838Z

LATITUDE 34.2977N

LONGITUDE 123.4002W

TEMP. ° 7 10 13 16 19 22  
C 665 \*3 □ .35 .41 .47 .53 .59 .65  
LOG 488 NM. ° -4 -3 -2 -1 0 1



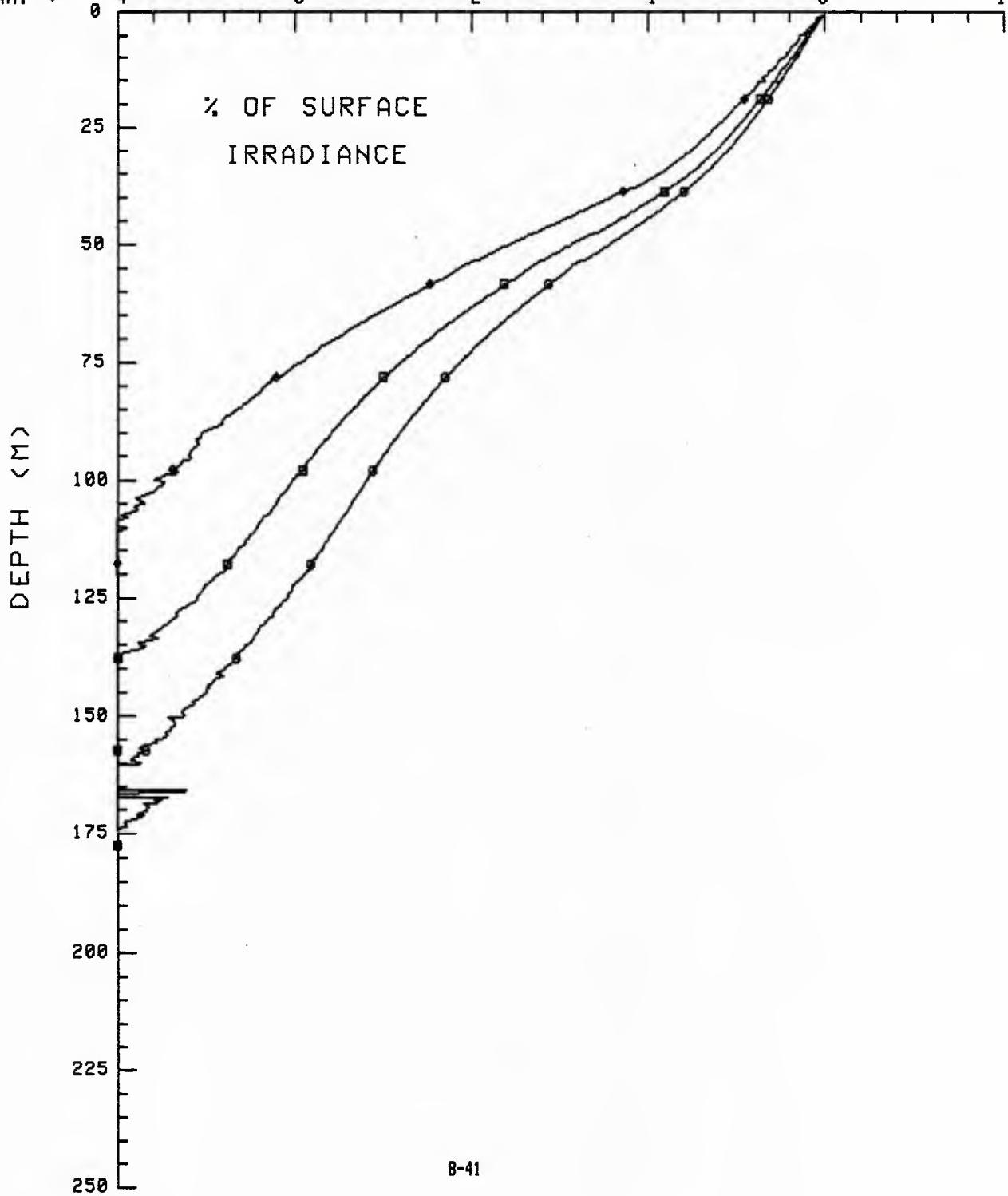
ODEX 3 STA 38 UP CAST 18-17-82 18

LATITUDE 34.2857N

LONGITUDE 123.4838W

LOG 465 NM. o -4  
LOG 441 NM. □ -4  
LOG 410 NM. ♦ -4

-3 -2 -1 0 1  
-3 -2 -1 0 1  
-3 -2 -1 0 1



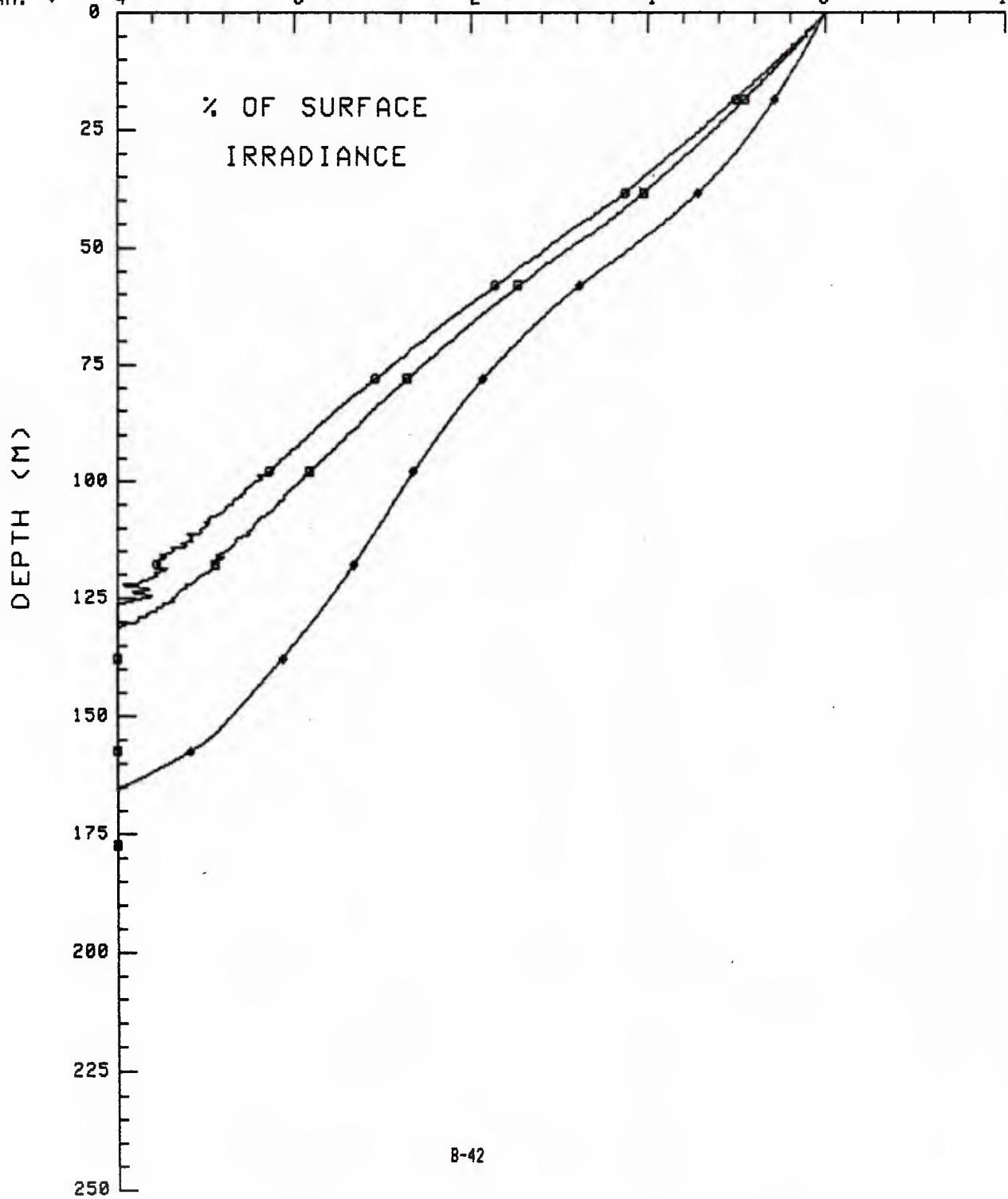
ODEX 3 STA 30 UP CAST 10-17-82 18

LATITUDE 34.2857N

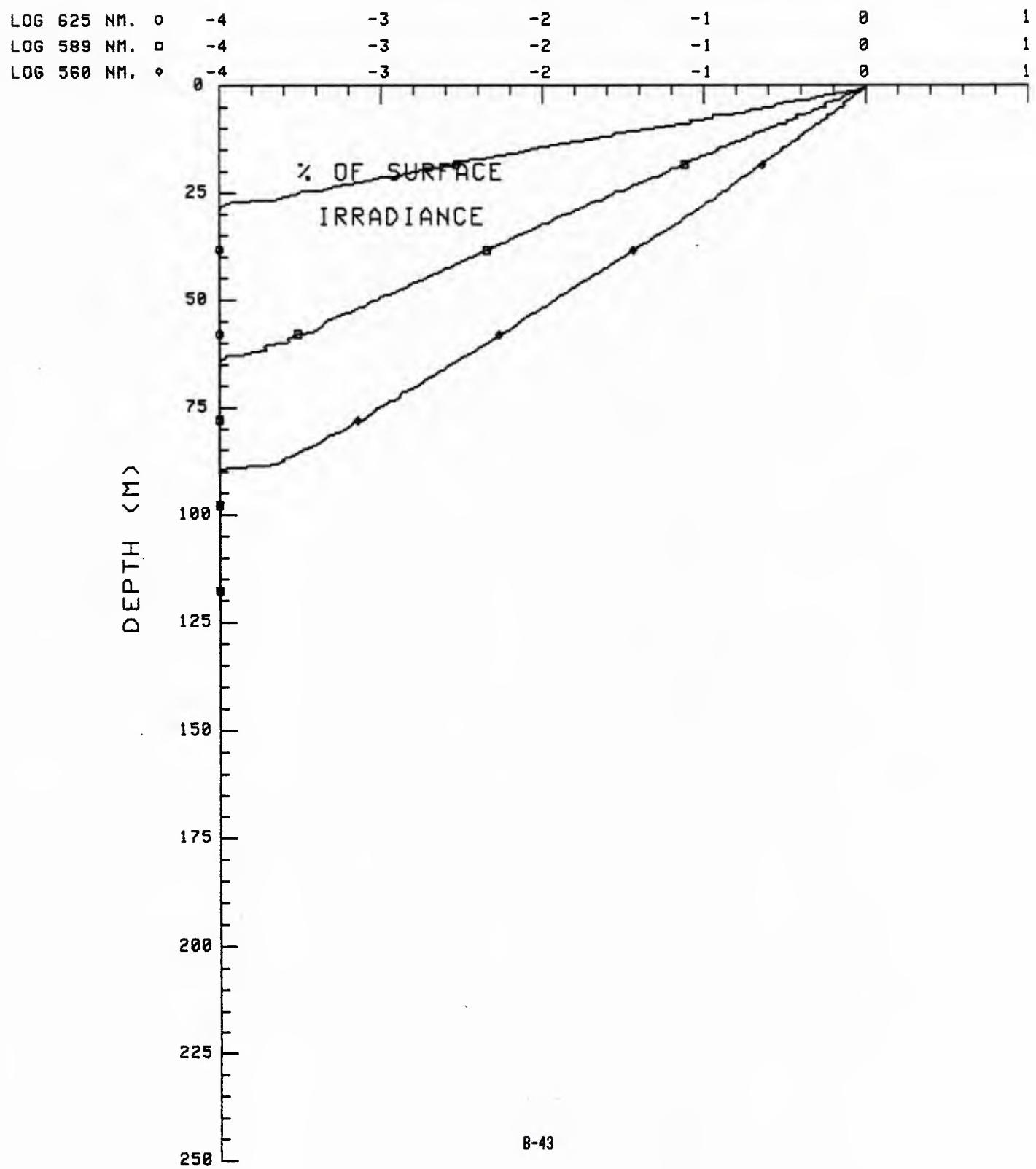
LONGITUDE 123.4036W

LOG 540 NM. o -4  
LOG 520 NM. □ -4  
LOG 488 NM. ♦ -4

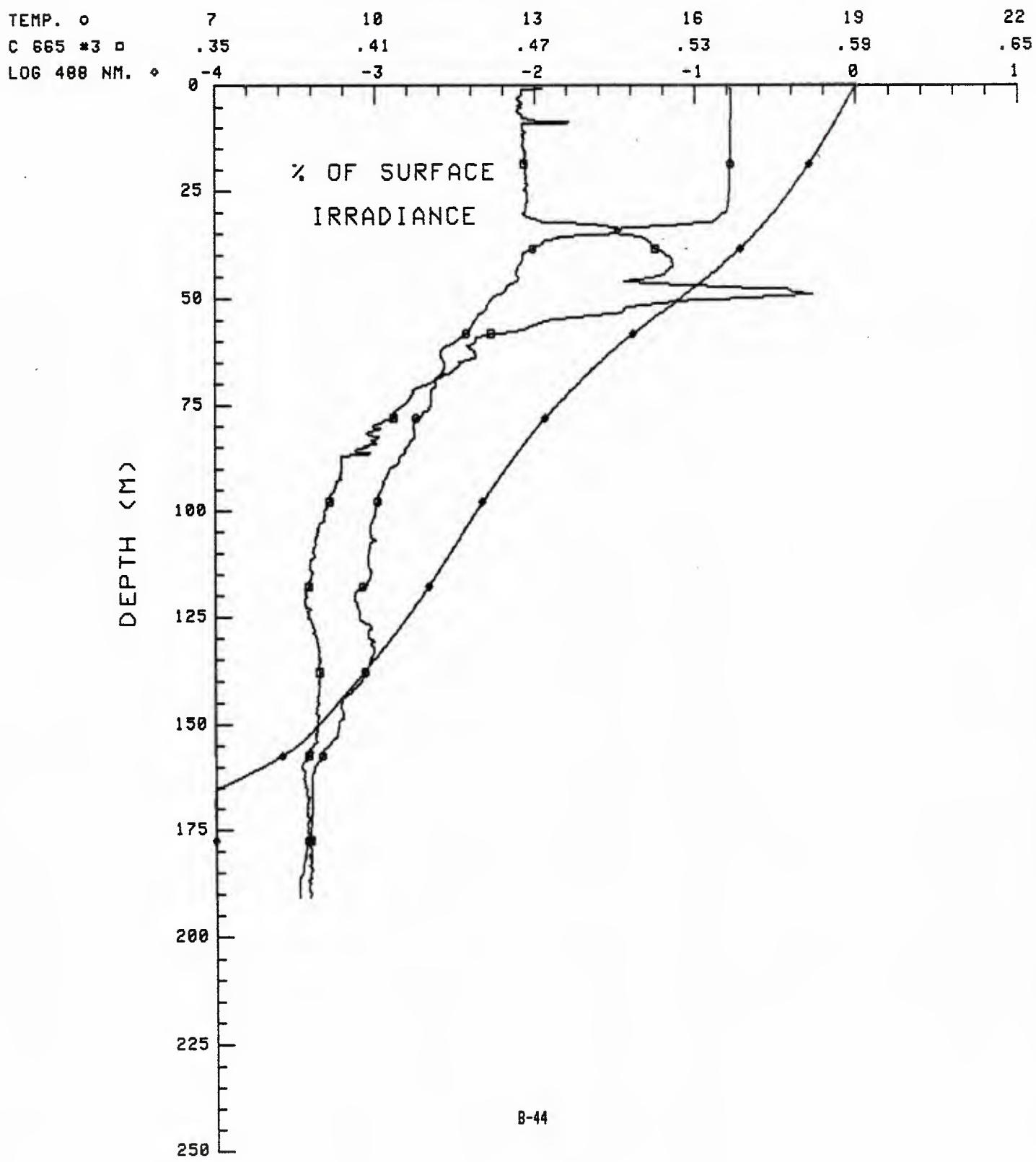
-3 -2 -1 0 1  
-3 -2 -1 0 1  
-3 -2 -1 0 1



ODEX 3 STA 38 UP CAST 10-17-82 18  
LATITUDE 34.2857N LONGITUDE 123.4038W

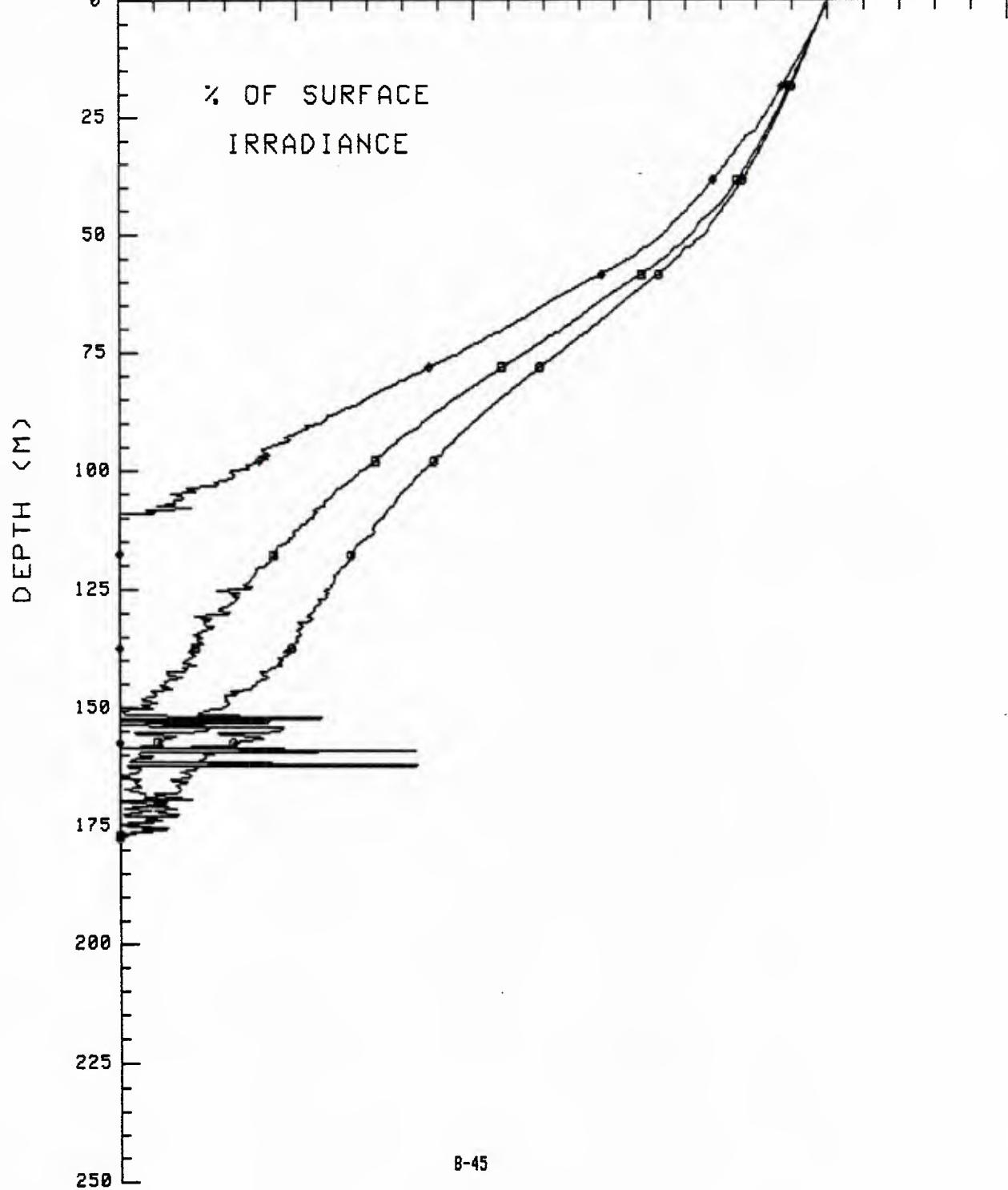


ODDEX 3 STA 30 UP CAST 18-17-82 18  
LATITUDE 34.2857N      LONGITUDE 123.4838W



ODEX 3 STA 37 DN CAST 10-18-82 1905Z  
LATITUDE 34.2949N      LONGITUDE 125.4098W

LOG 465 NM.	o	-4	-3	-2	-1	0	1
LOG 441 NM.	□	-4	-3	-2	-1	0	1
LOG 410 NM.	◊	-4	-3	-2	-1	0	1



ODEX 3 STA 37 DN CAST 10-18-82 1905Z

LATITUDE 34.2949N

LONGITUDE 125.4898W

LOG 540 NM. o -4

-3

-2

-1

0

1

LOG 520 NM. □ -4

-3

-2

-1

0

1

LOG 488 NM. ♦ -4

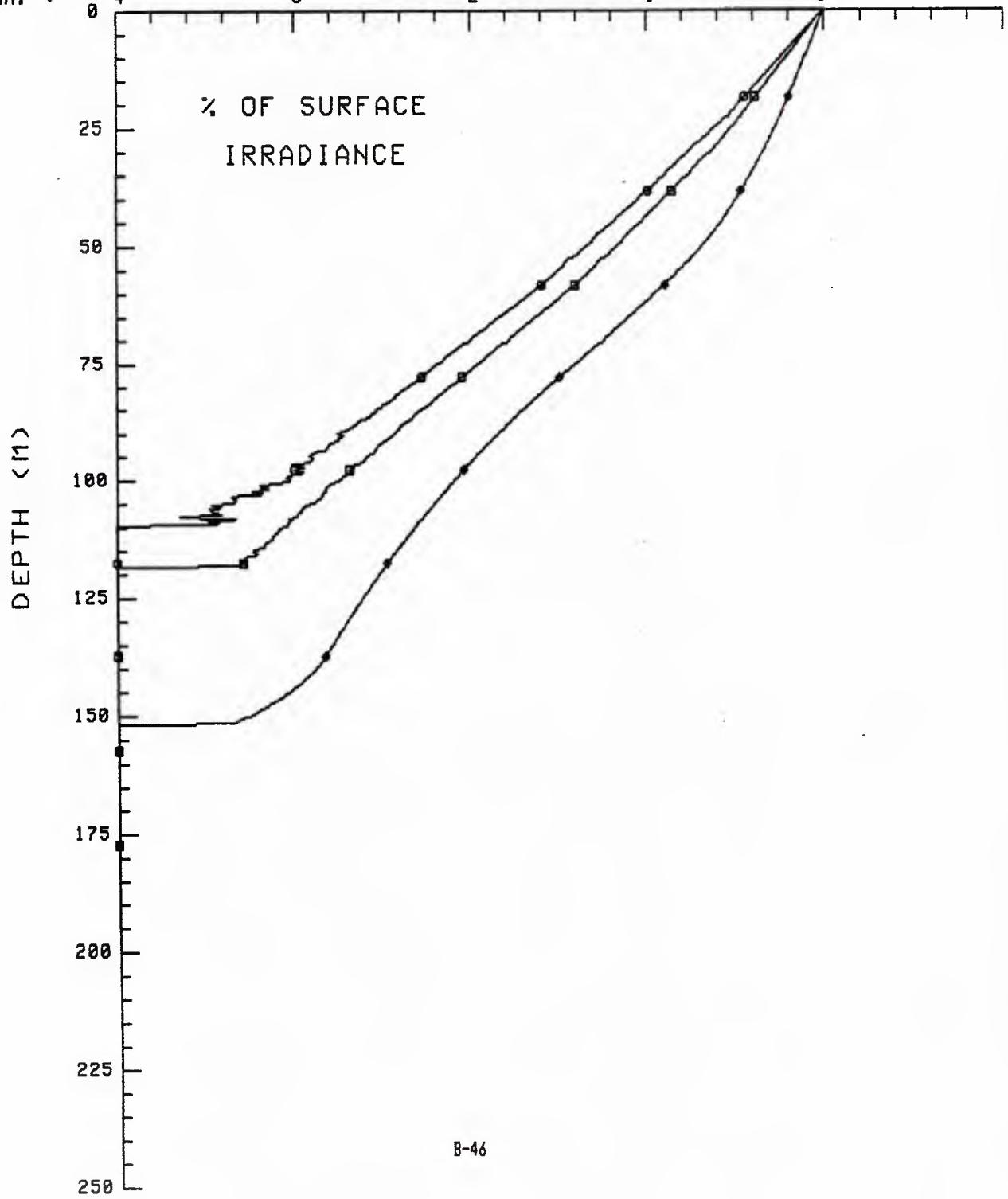
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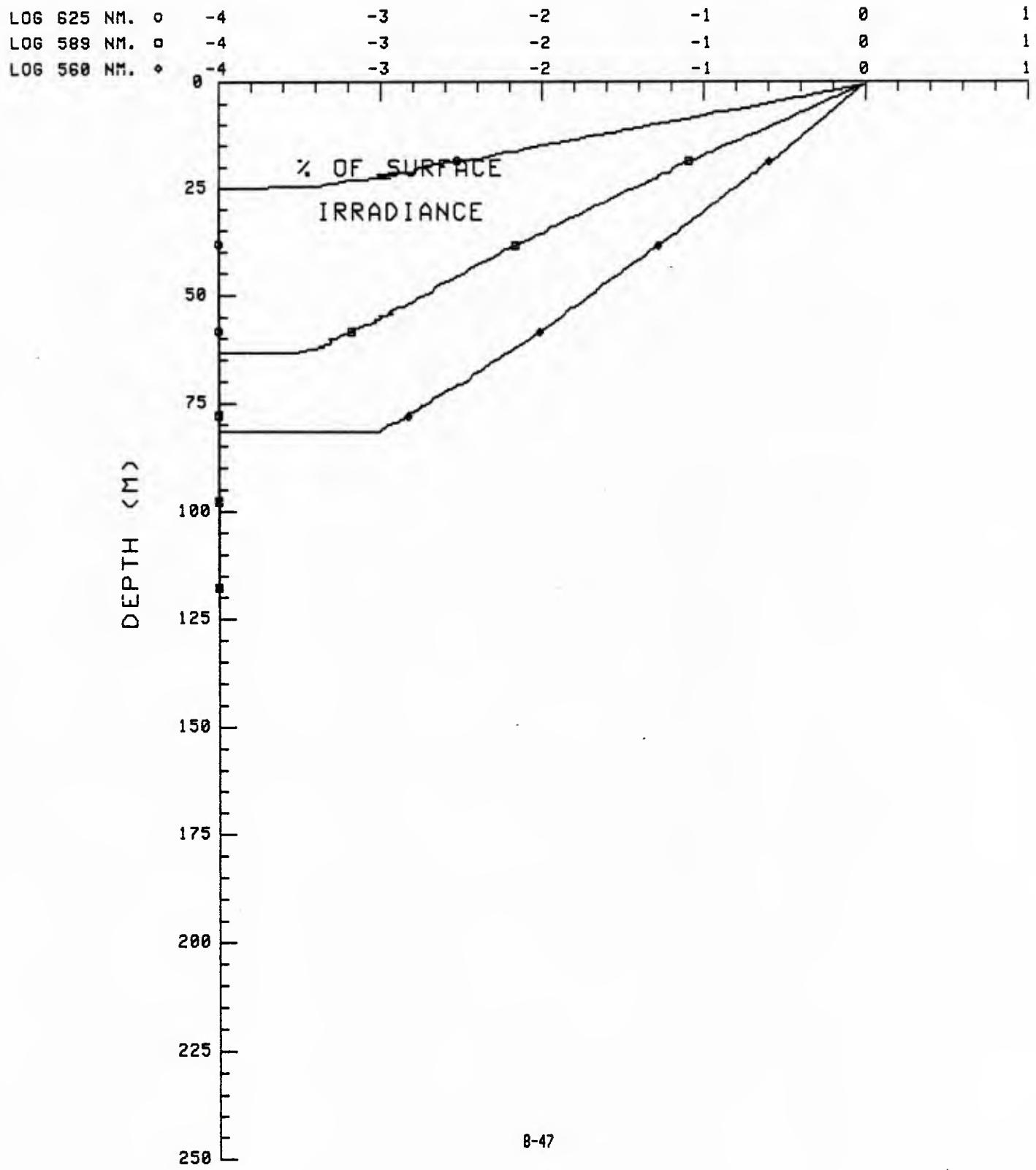
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ODEX 3 STA 37 DN CAST 18-18-82 1905Z  
LATITUDE 34.2949N LONGITUDE 125.4090W

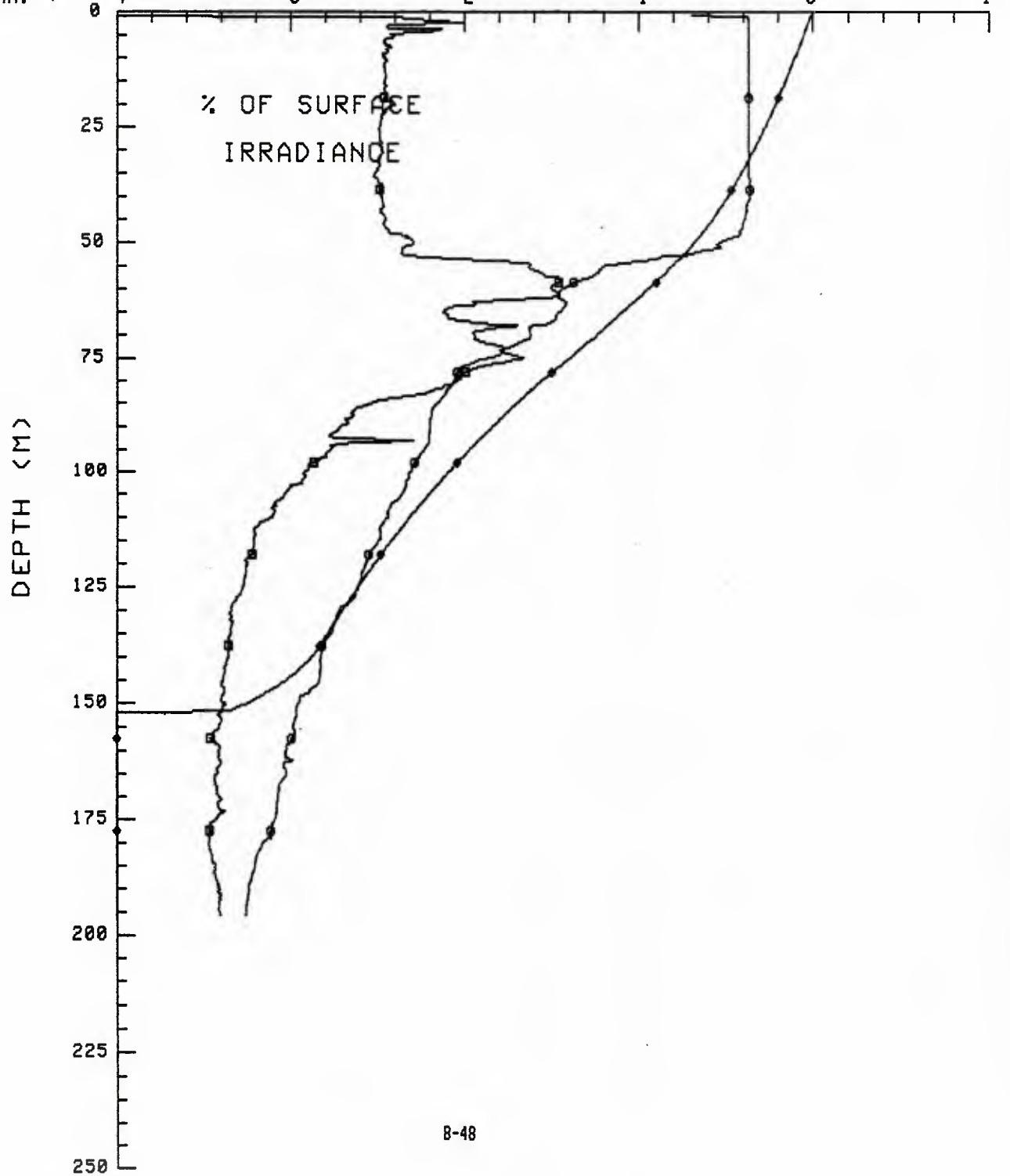


ODEX 3 STA 37 DN CAST 10-18-82 1905Z

LATITUDE 34.2949N

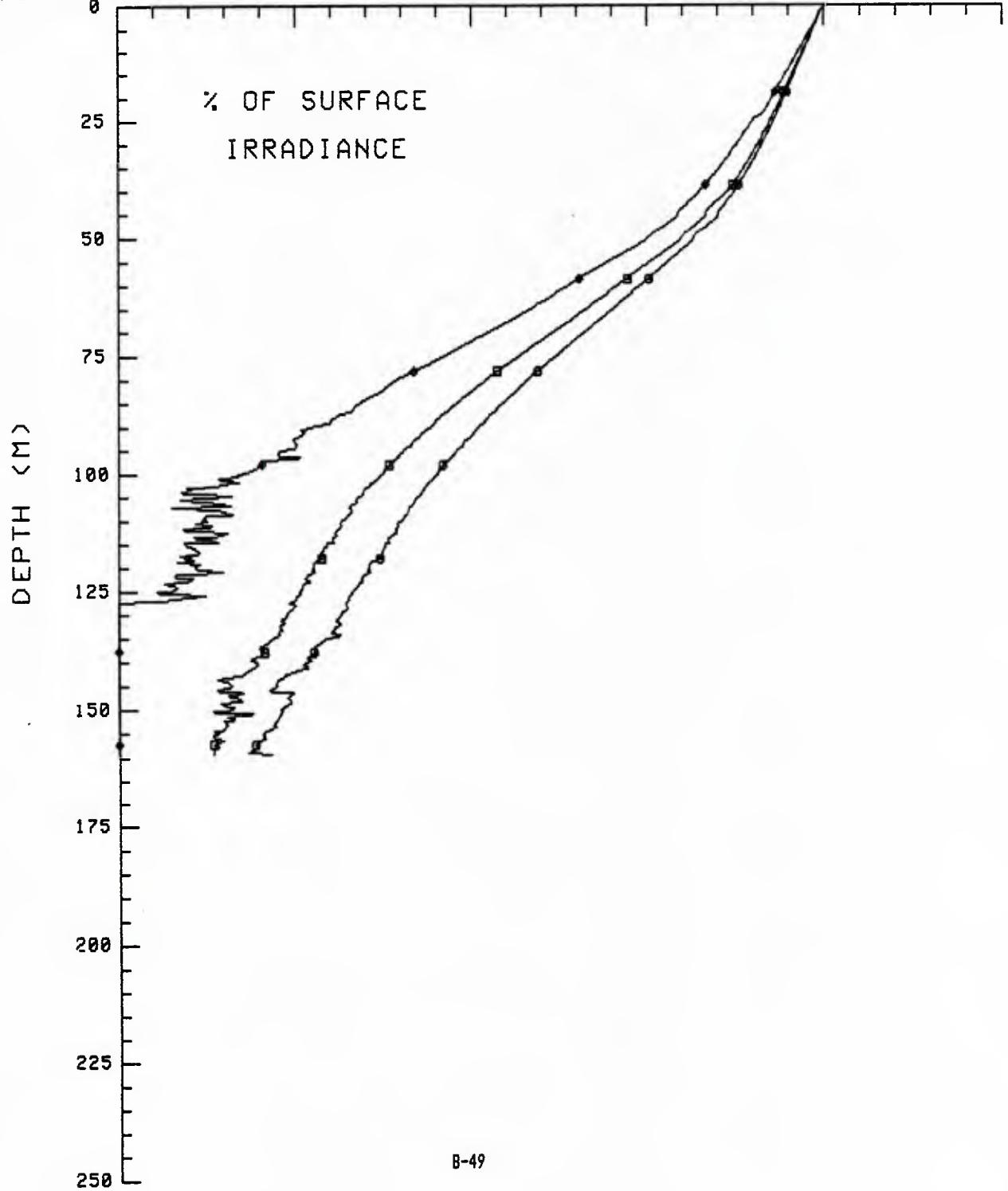
LONGITUDE 125.4098W

TEMP. °C	7	10	13	16	19	22
C 665 #3	.35	.41	.47	.53	.59	.65
LOG 488 NM.	-4	-3	-2	-1	0	1



ODEX 3 STA 37 UP CAST 10-18-82 1933Z  
LATITUDE 34.2938N      LONGITUDE 125.4898W

LOG 465 NM.	n	-4	-3	-2	-1	0	1
LOG 441 NM.	□	-4	-3	-2	-1	0	1
LOG 410 NM.	◊	-4	-3	-2	-1	0	1



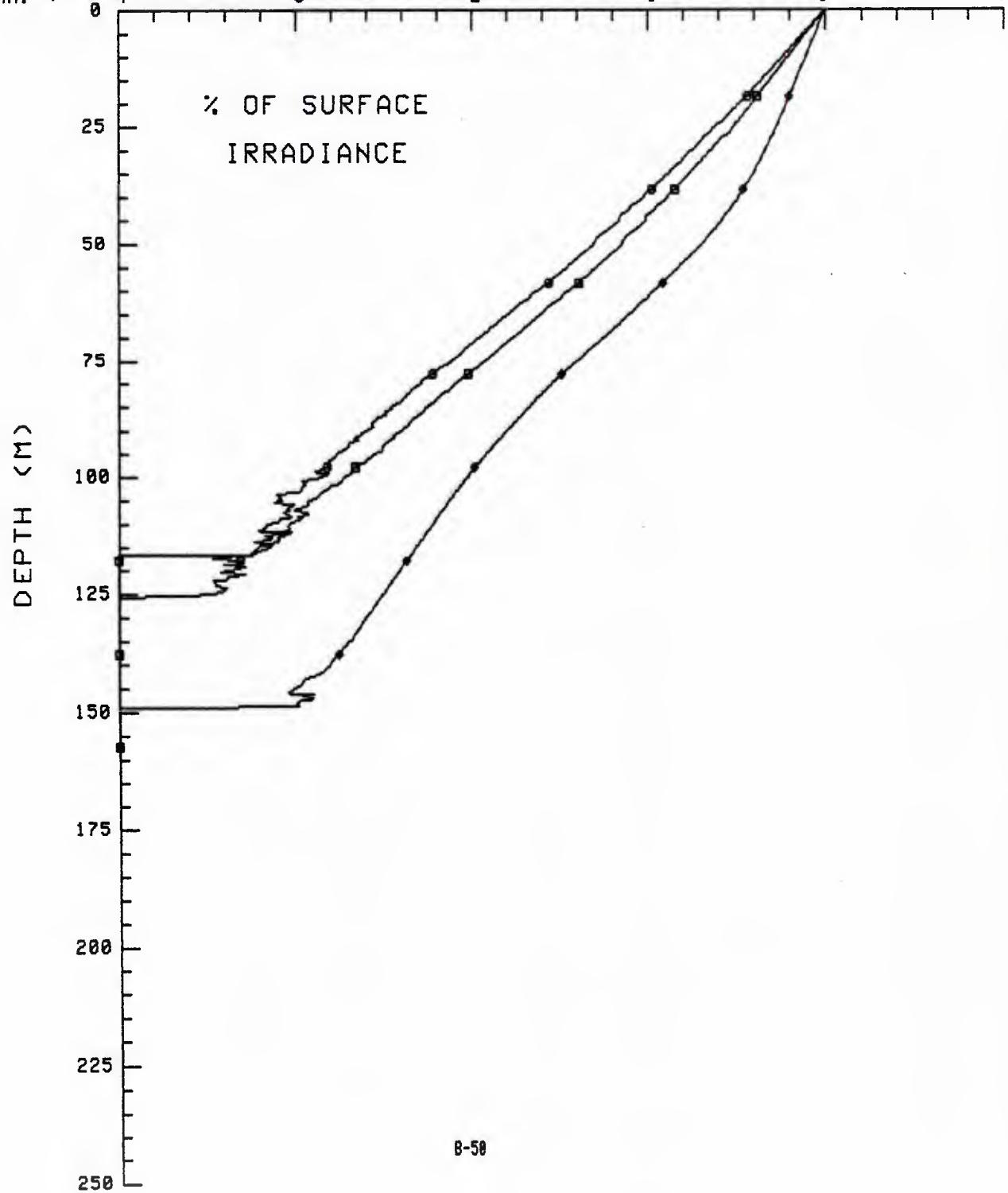
ODEX 3 STA 37 UP CAST 18-18-82 1933Z

LATITUDE 34.2938N

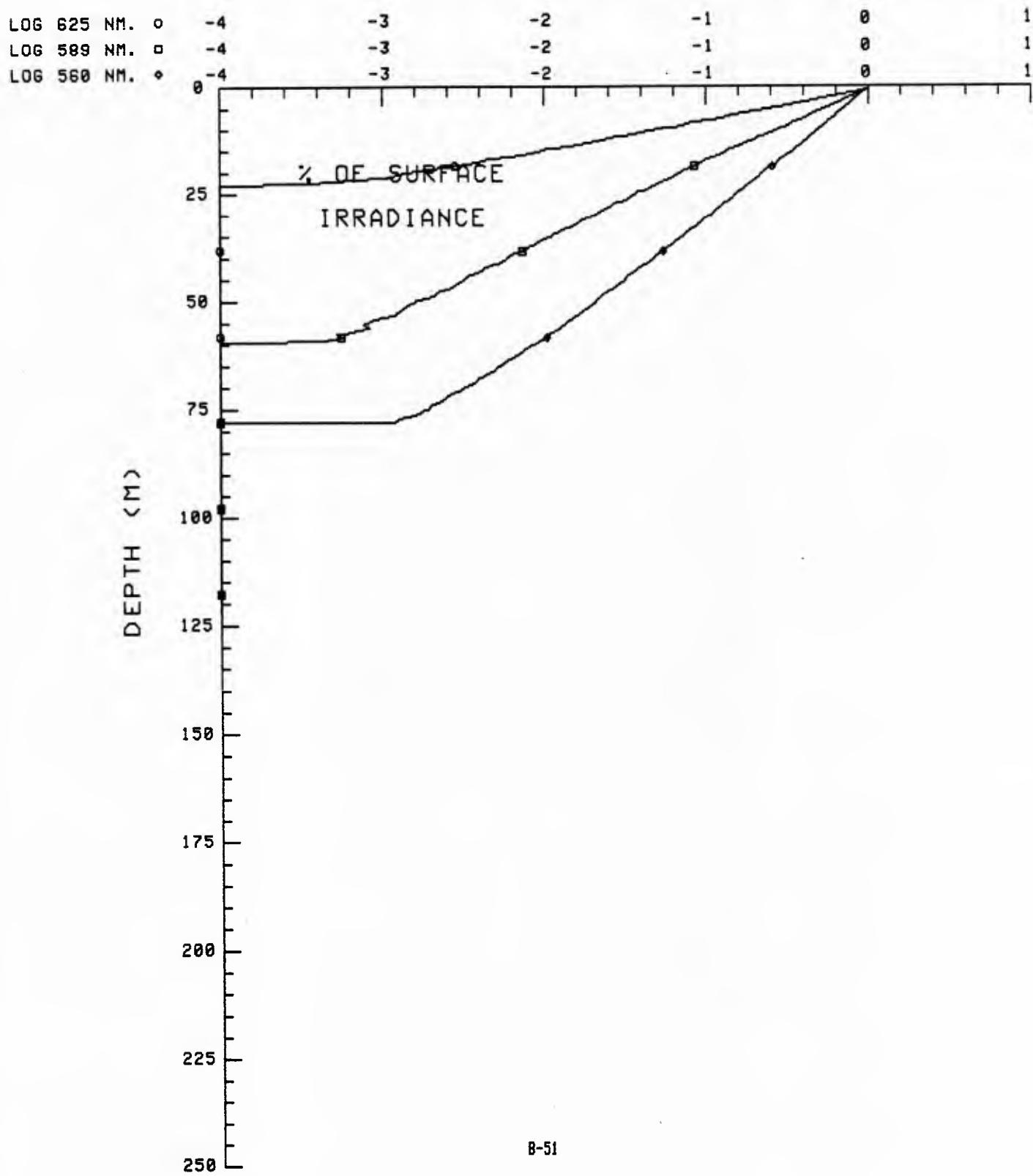
LONGITUDE 125.4098W

LOG 540 NM. o -4  
LOG 520 NM. □ -4  
LOG 488 NM. ♦ -4

-3 -2 -1 0 1

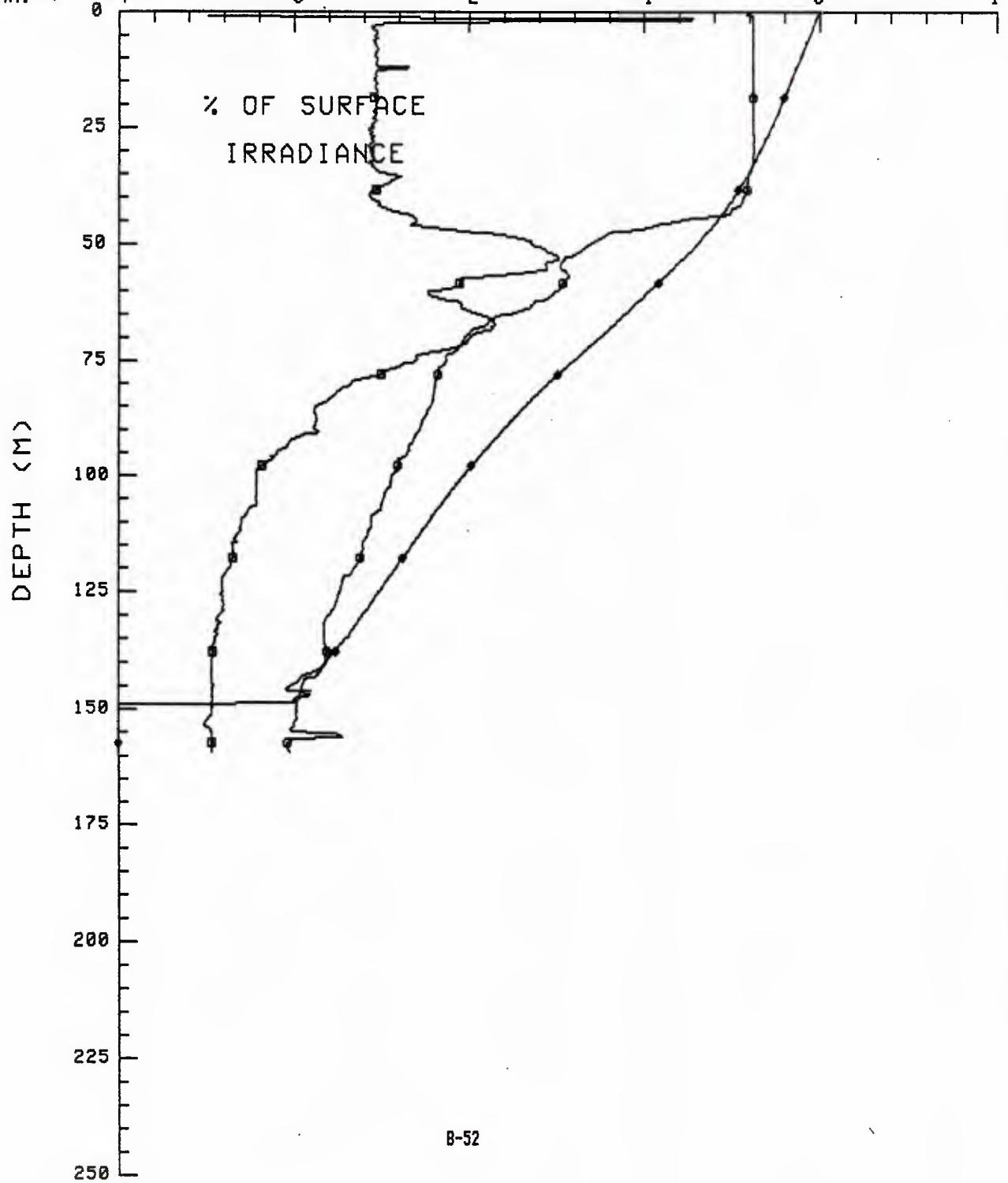


ODEX 3 STA 37 UP CAST 18-18-82 1933Z  
LATITUDE 34.2938N LONGITUDE 125.4098W



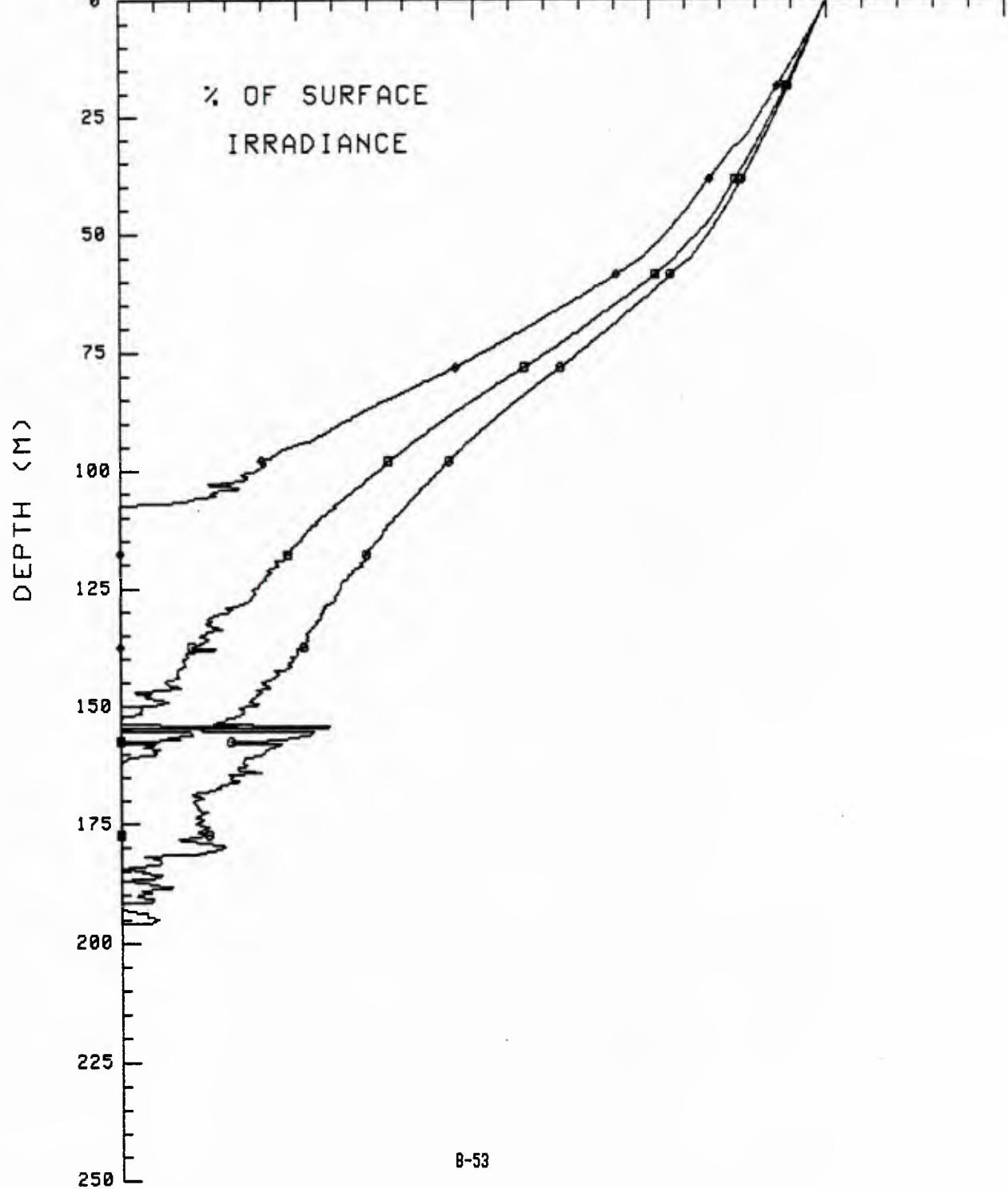
OODEX 3 STA 37 UP CAST 18-18-82 1933Z  
LATITUDE 34.2938N      LONGITUDE 125.4098W

TEMP. ° 7 10 13 16 19 22  
C 665 \*3 □ .35 .41 .47 .53 .59 .65  
LOG 488 NM. ♦ -4 -3 -2 -1 0 1



ODEX 3 STA 38 DN CAST 10-18-82 2125Z  
LATITUDE 34.999N      LONGITUDE 125.454W

LOG 465 NM.	0	-4	-3	-2	-1	0	1
LOG 441 NM.	□	-4	-3	-2	-1	0	1
LOG 410 NM.	♦	-4	-3	-2	-1	0	1



ODEX 3 STA 38 DN CAST 10-18-82 2125Z

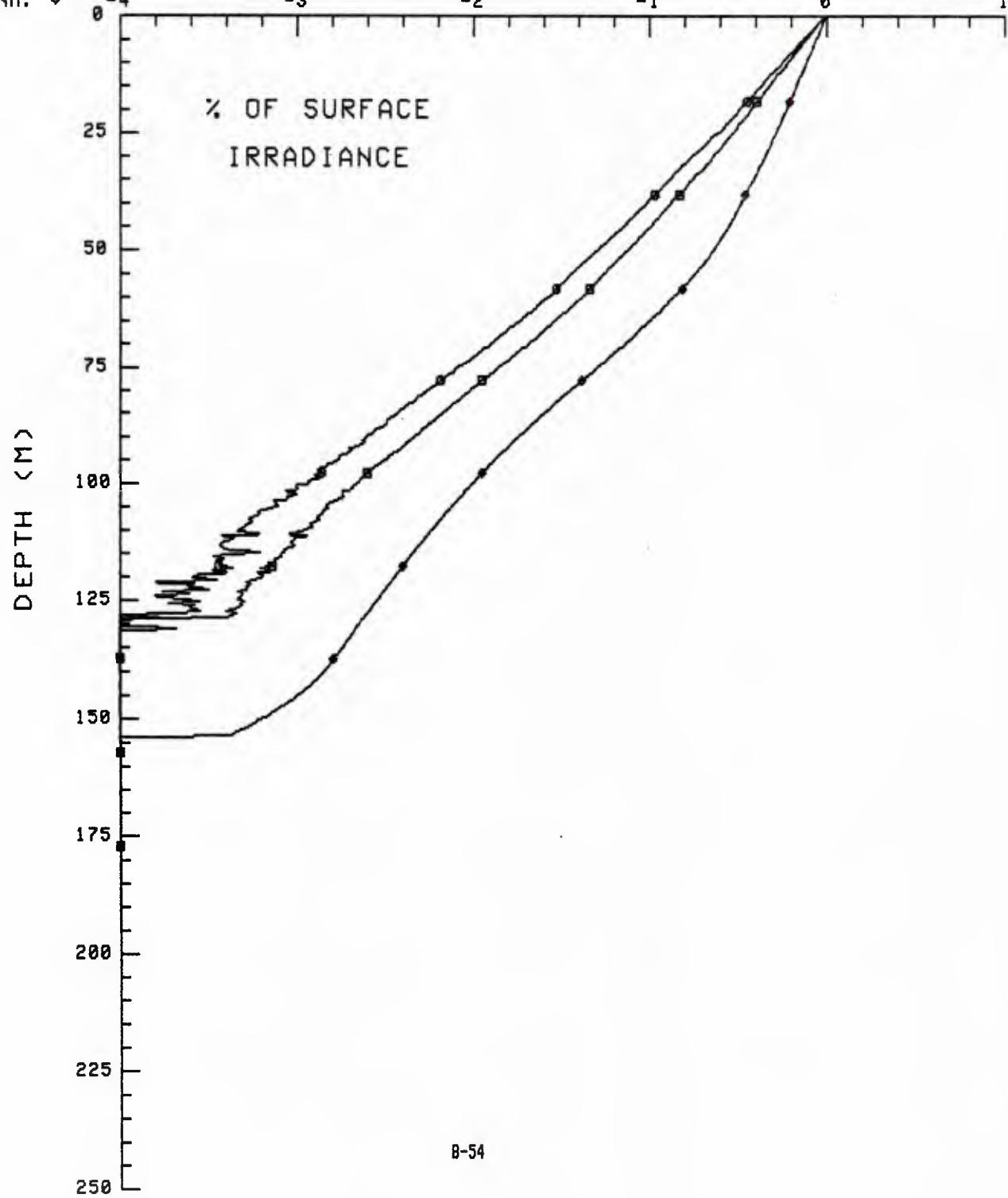
LATITUDE 34.9990N

LONGITUDE 125.4549W

LOG 540 NM. 0 -4 -3 -2 -1 0 1

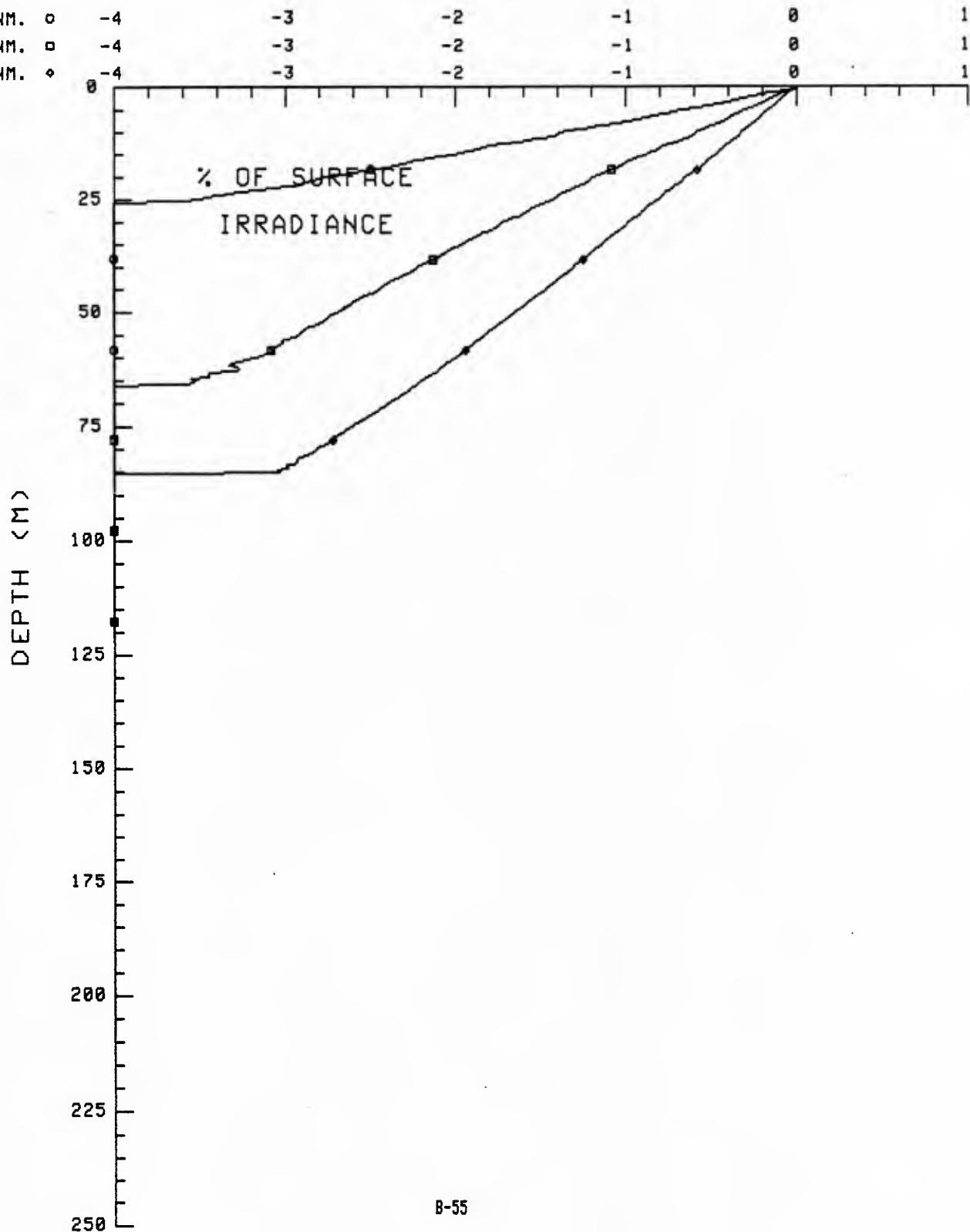
LOG 520 NM. □ -4 -3 -2 -1 0 1

LOG 488 NM. ♦ -4 -3 -2 -1 0 1



ODEX 3 STA 38 DN CAST 10-18-82 2125Z  
LATITUDE 34.999N LONGITUDE 125.454W

LOG 625 NM. 0 -4 -3 -2 -1 0 1  
LOG 589 NM. □ -4 -3 -2 -1 0 1  
LOG 560 NM. ♦ -4 -3 -2 -1 0 1



ODEX 3 STA 38 DN CAST 10-18-82 2125Z

LATITUDE 34.9998N

LONGITUDE 125.4549W

TEMP. ° 7  
C 665 \*3 ° .35  
LOG 488 NM. ° -4

10

13

16

19

22

.41

.47

.53

.59

.65

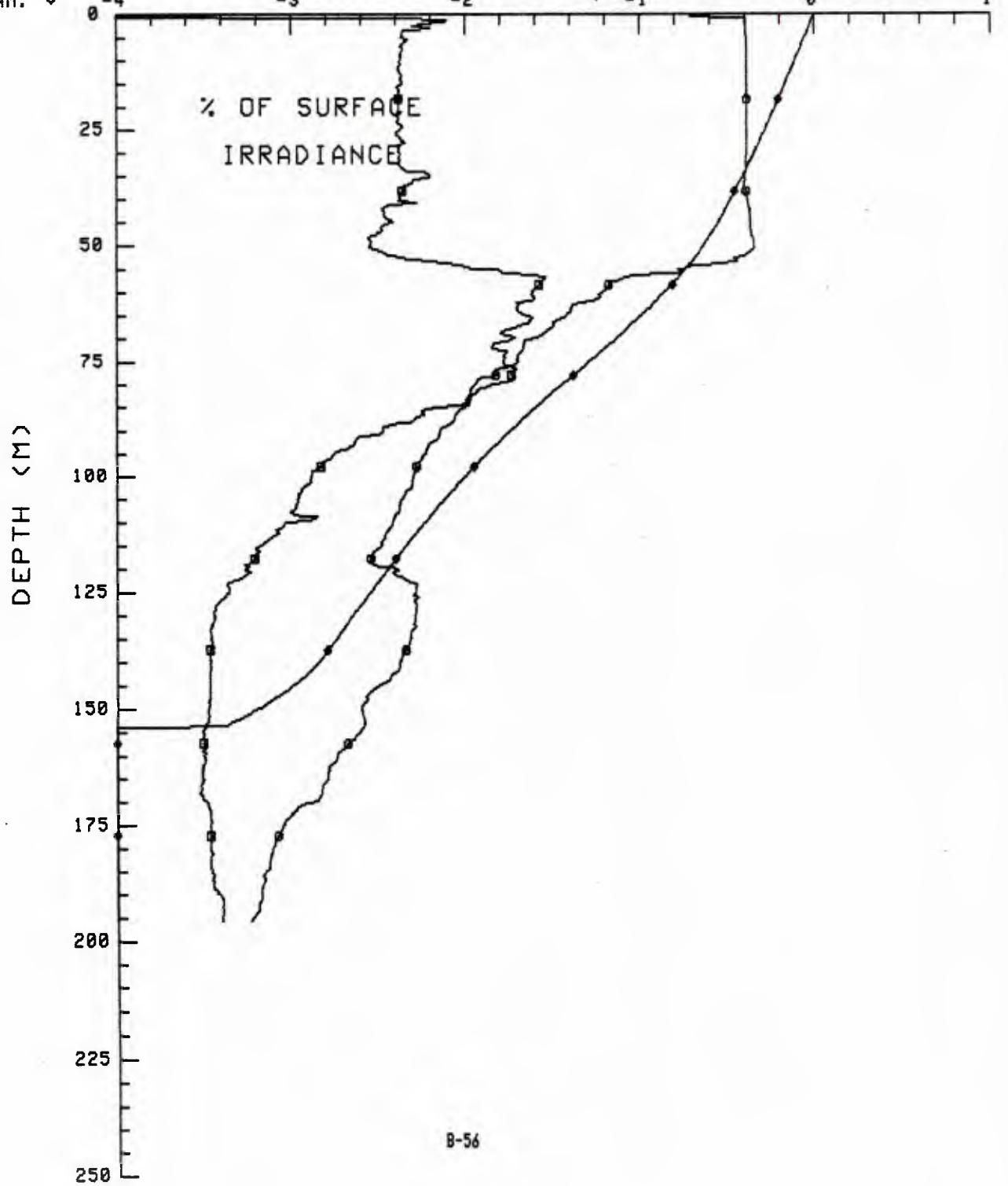
-3

-2

-1

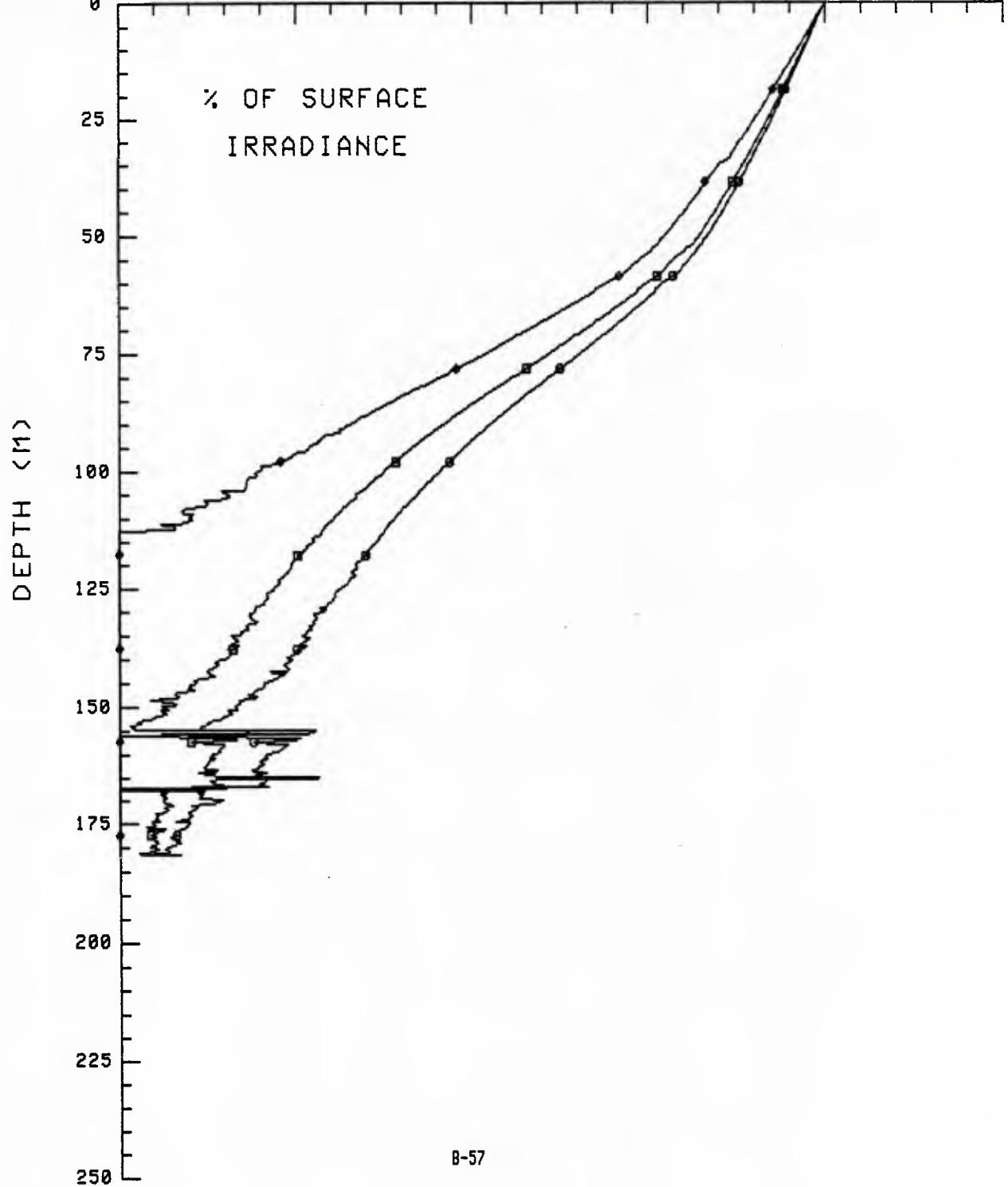
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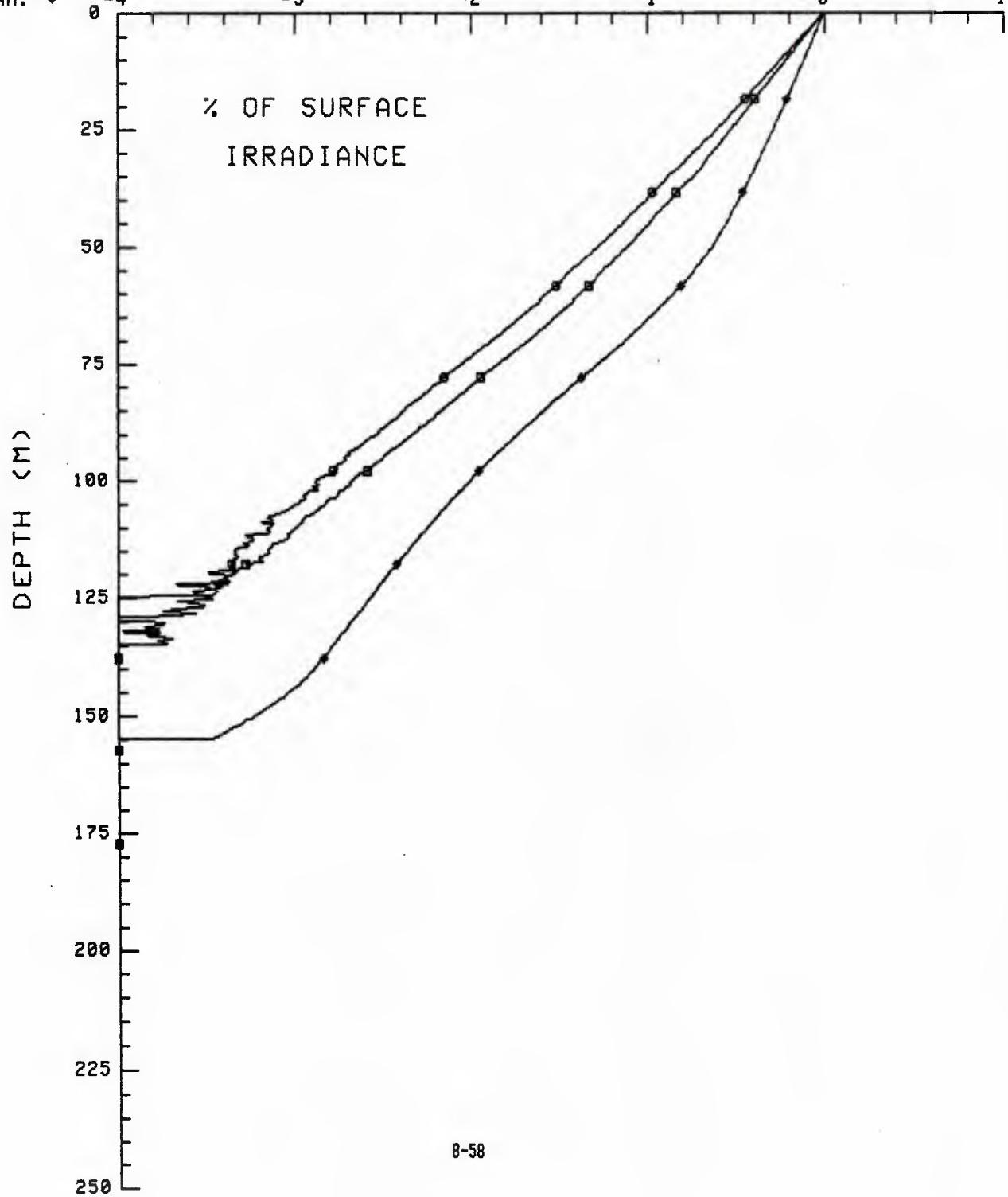
ODEX 3 STA 38 UP CAST 10-18-82 2149Z  
LATITUDE 34.9990N      LONGITUDE 125.4549W

LOG 465 NM.	○	-4	-3	-2	-1	0	1
LOG 441 NM.	□	-4	-3	-2	-1	0	1
LOG 410 NM.	◊	-4	-3	-2	-1	0	1



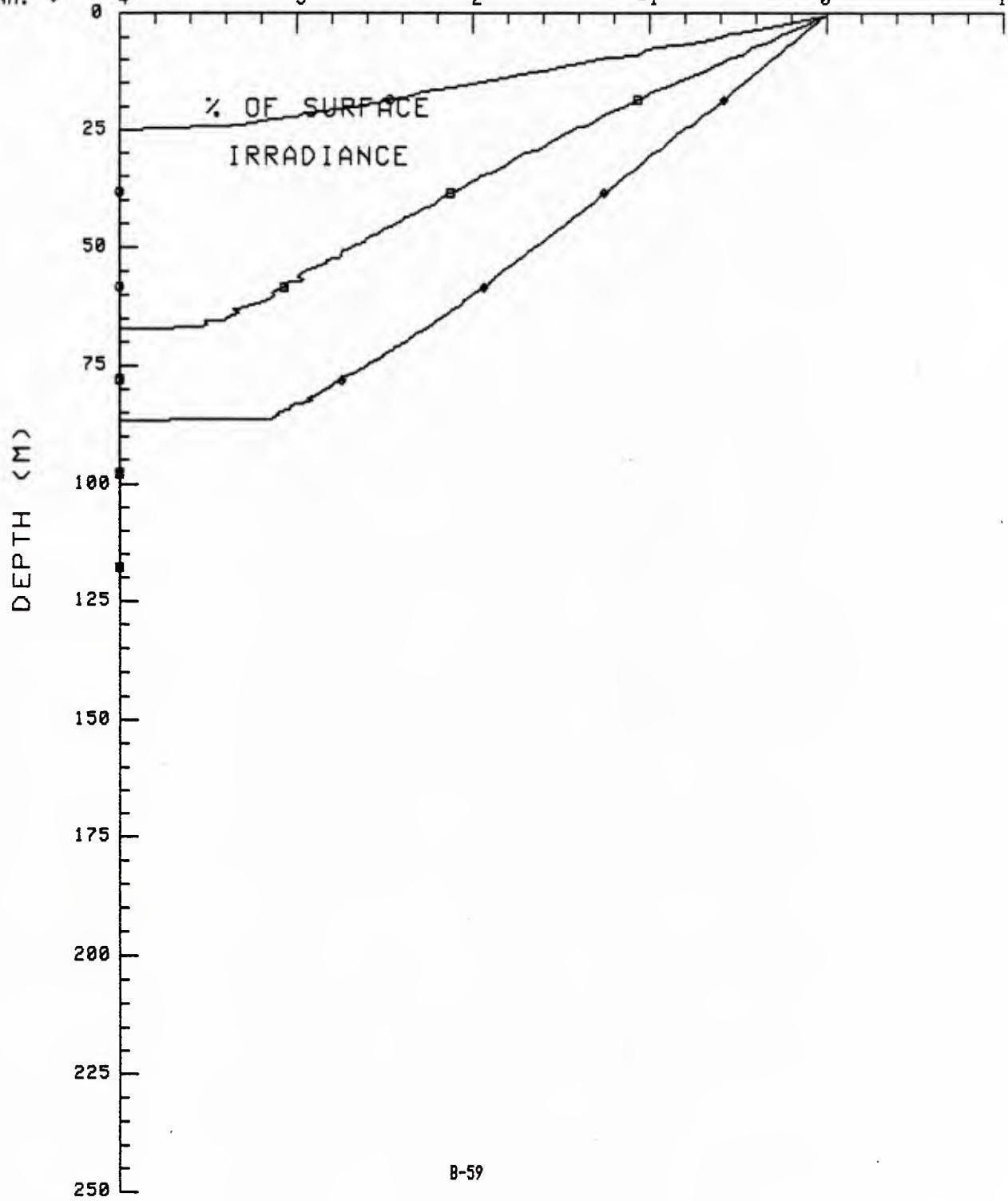
ODEX 3 STA 38 UP CAST 10-18-82 2149Z  
LATITUDE 34.9998N      LONGITUDE 125.4549W

LOG 540 NM. 0 -4 -3 -2 -1 0 1  
LOG 520 NM. □ -4 -3 -2 -1 0 1  
LOG 488 NM. ♦ -4 -3 -2 -1 0 1



ODEX 3 STA 38 UP CAST 10-18-82 2149Z  
LATITUDE 34.9998N LONGITUDE 125.4549W

LOG 625 NM. 0 -4 -3 -2 -1 0 1  
LOG 589 NM. □ -4 -3 -2 -1 0 1  
LOG 560 NM. ♦ -4 -3 -2 -1 0 1

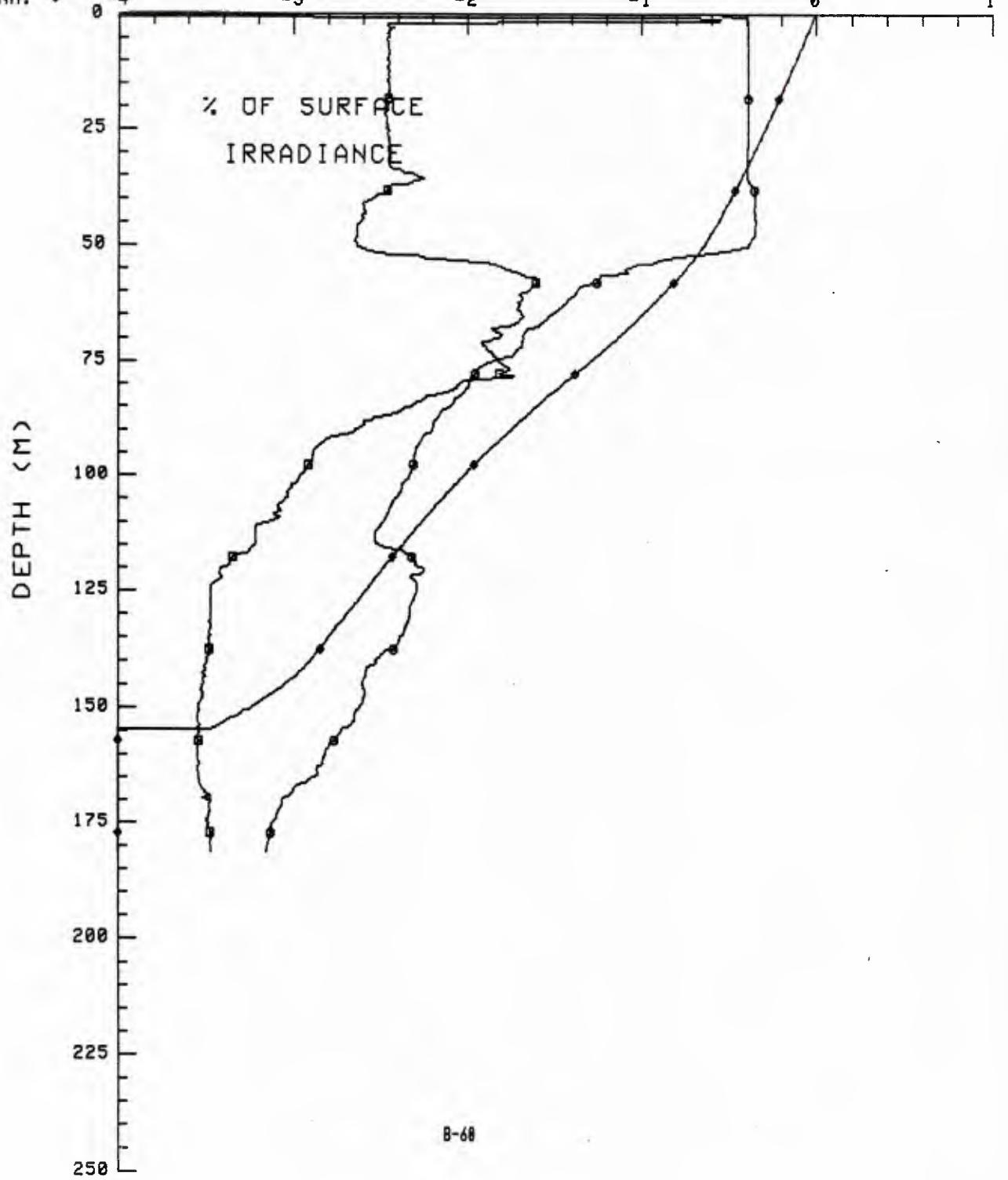


ODEX 3 STA 38 UP CAST 10-18-82 2149Z

LATITUDE 34.9998N

LONGITUDE 125.4549W

TEMP. °C	665 #3	LOG 488 NM.	0	7	10	13	16	19	22
				.35	.41	.47	.53	.59	.65
				-4	-3	-2	-1	0	1



ODEX 3 STA 44 UP CAST 18-19-82 2110Z  
LATITUDE 34.2950N      LONGITUDE 128.8990W

LOG 465 NM. ◊ -4

-3

-2

-1

0

1

LOG 441 NM. □ -4

-3

-2

-1

0

1

LOG 410 NM. ♦ -4

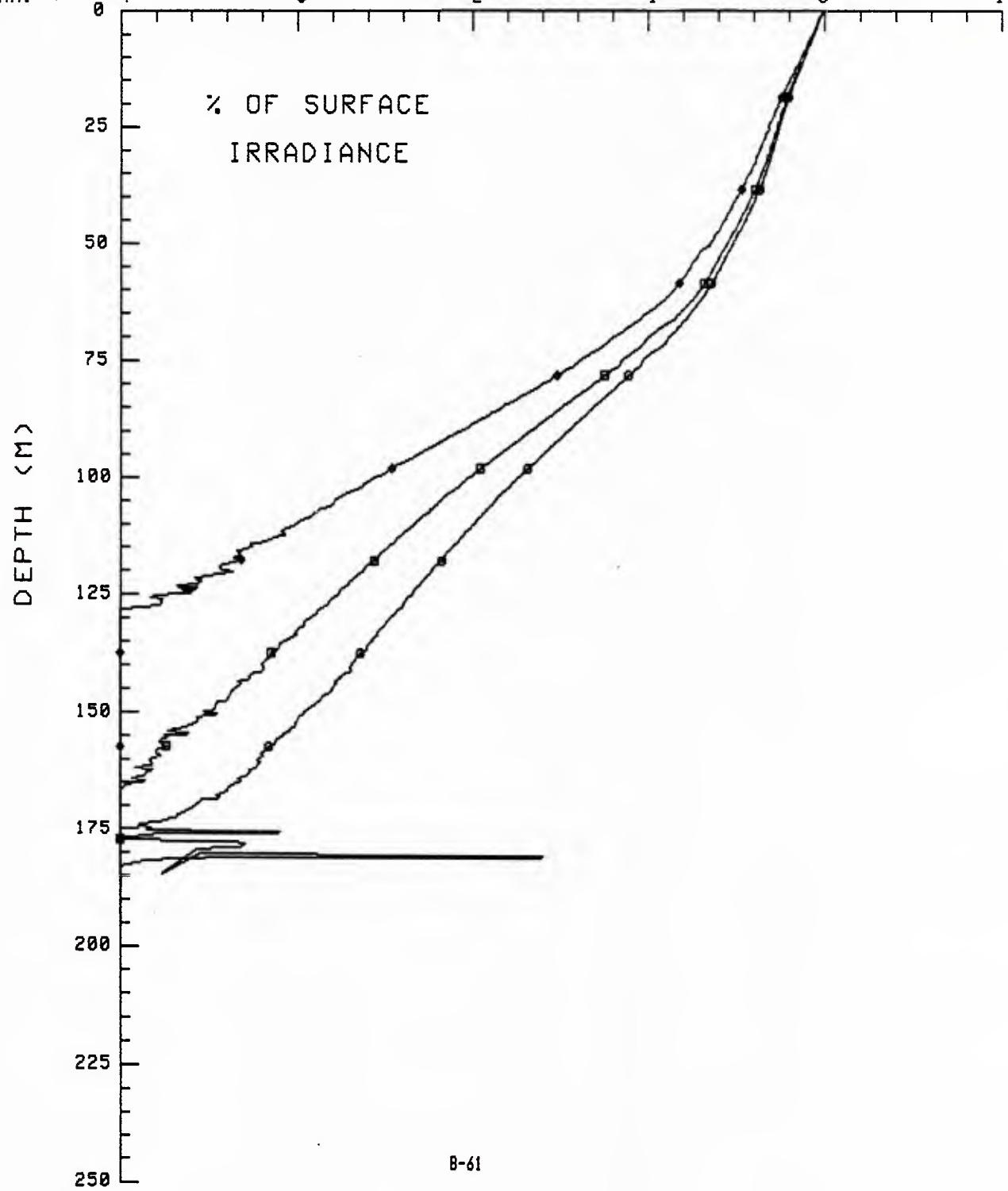
-3

-2

-1

0

1



ODEX 3 STA 44 UP CAST 18-19-82 2110Z

LATITUDE 34.2958N

LONGITUDE 128.0998W

LOG 540 NM. o -4  
LOG 520 NM. □ -4  
LOG 488 NM. ♦ -4

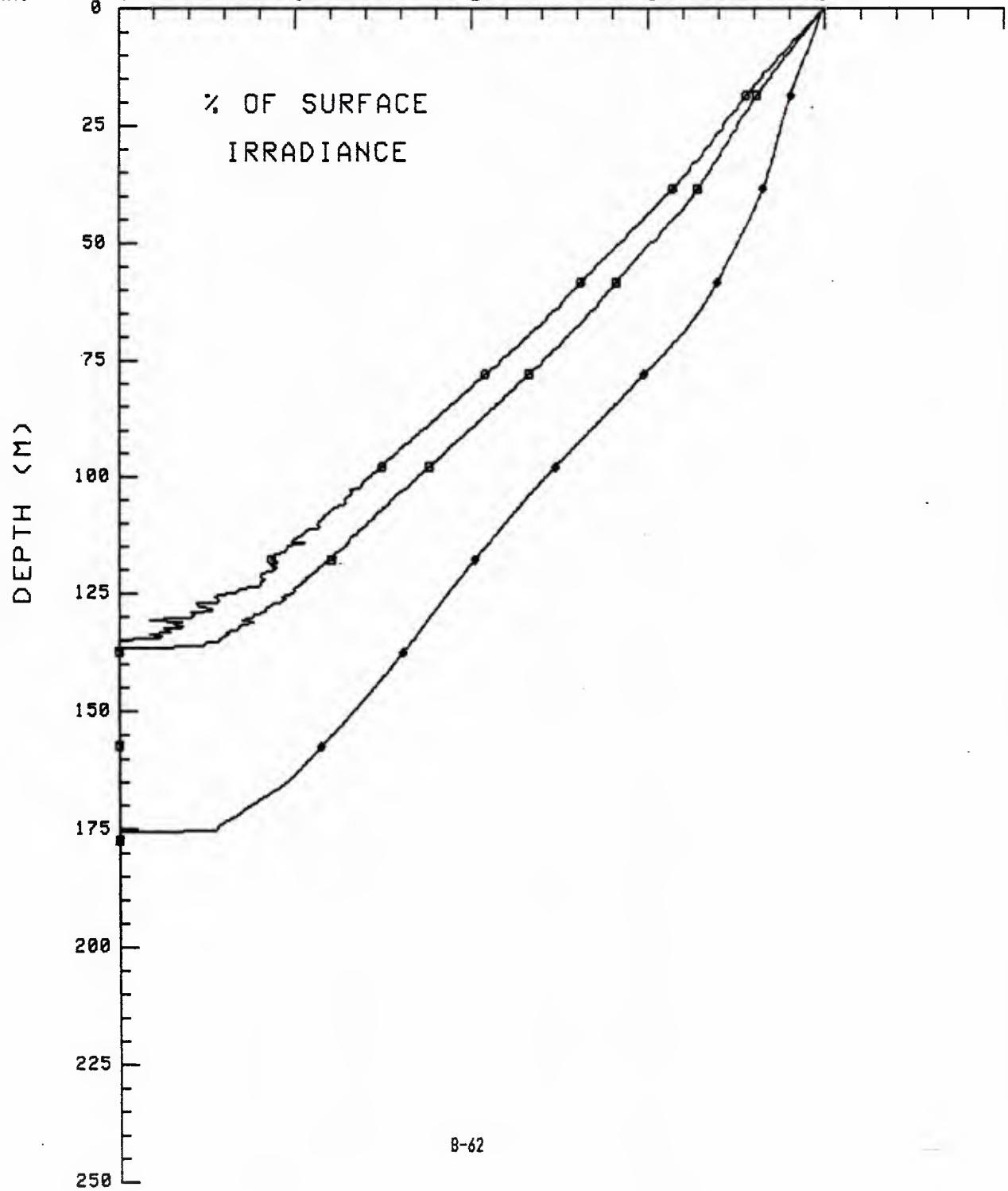
-3  
-3  
-3

-2  
-2  
-2

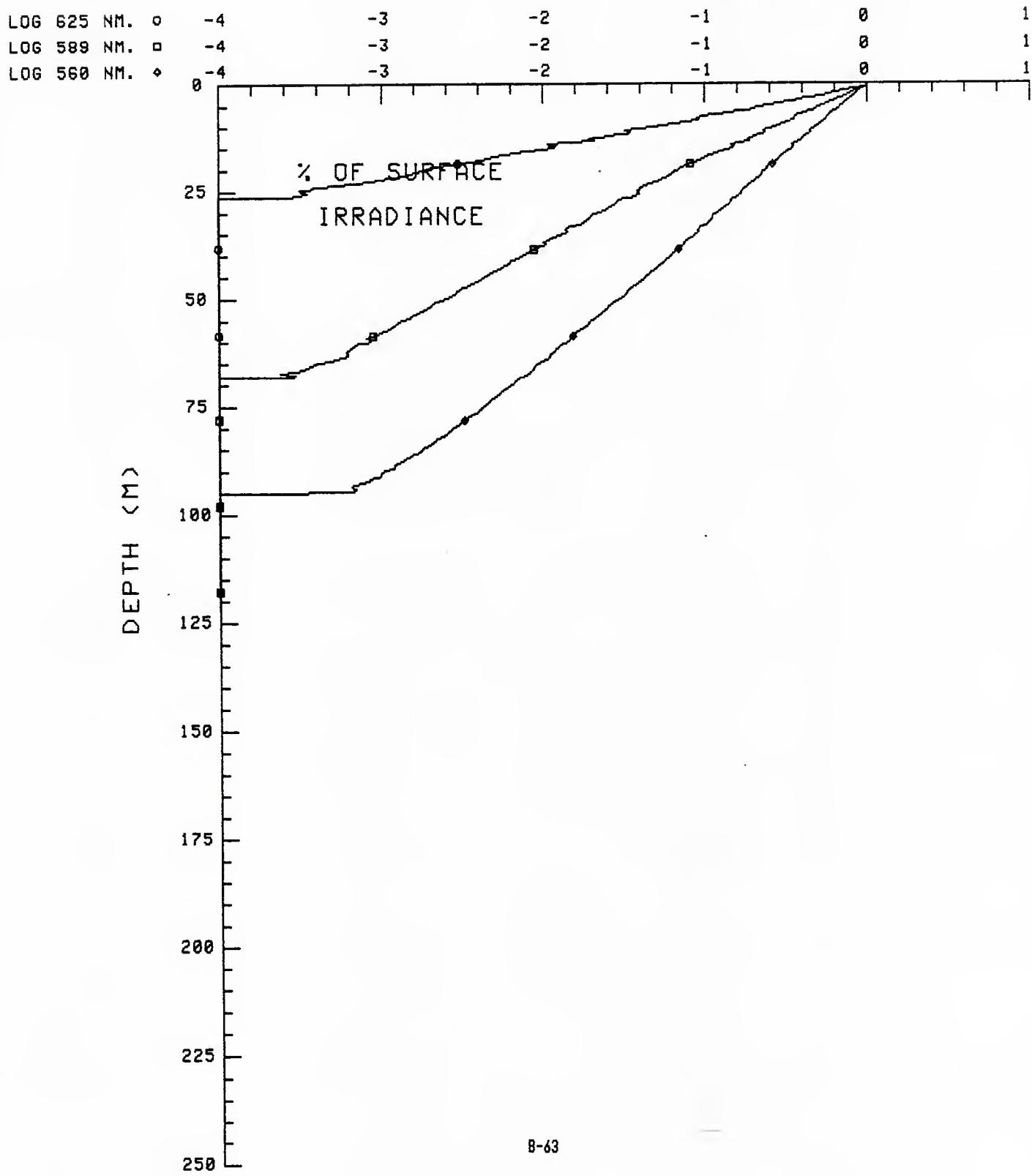
-1  
-1  
-1

0  
0  
0

1  
1  
1



ODEX 3 STA 44 UP CAST 10-19-82 2110Z  
LATITUDE 34.2950N LONGITUDE 128.8990W



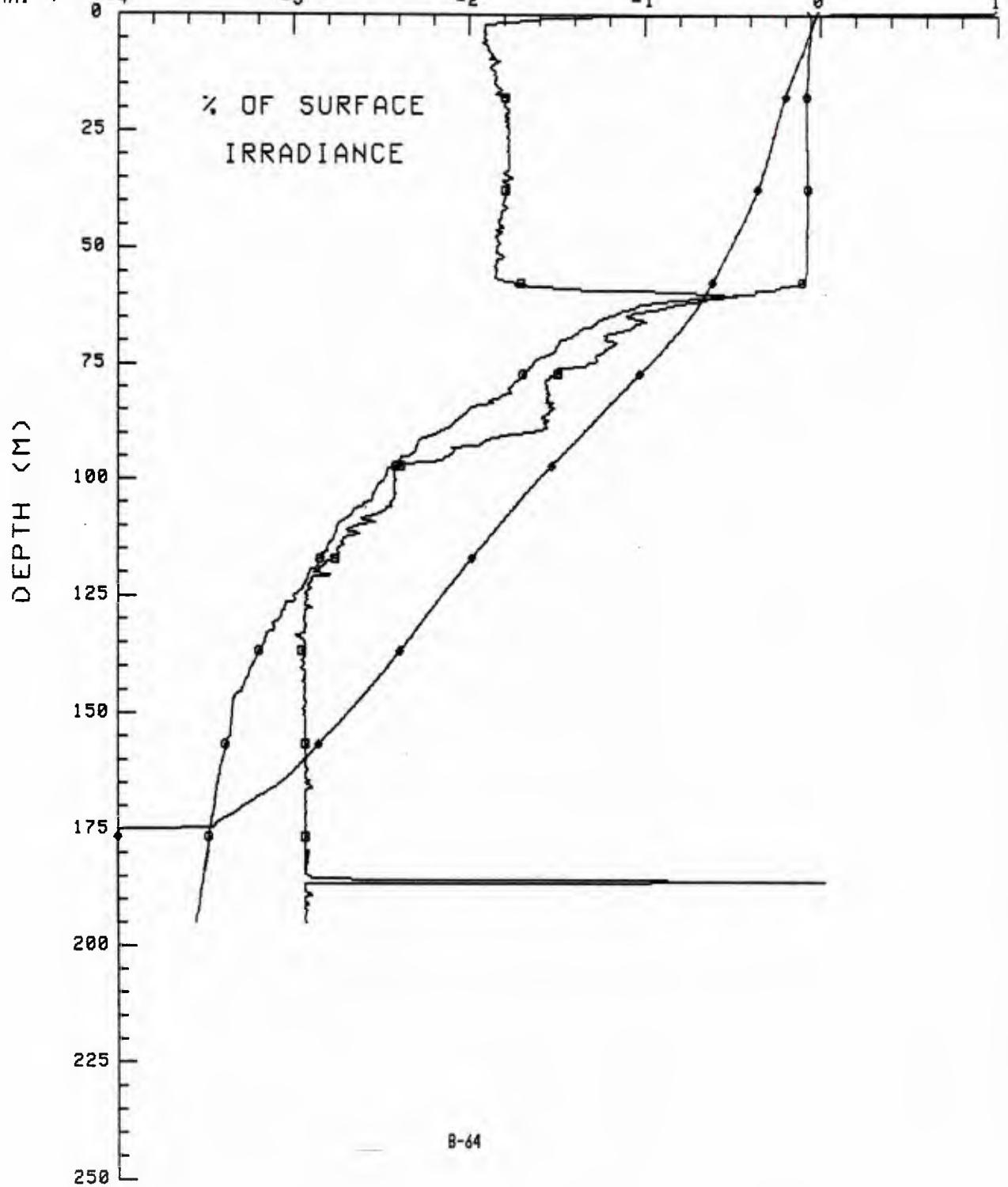
ODEX 3 STA 44 UP CAST 10-19-82 2110Z

LATITUDE 34.2958N

LONGITUDE 128.0998W

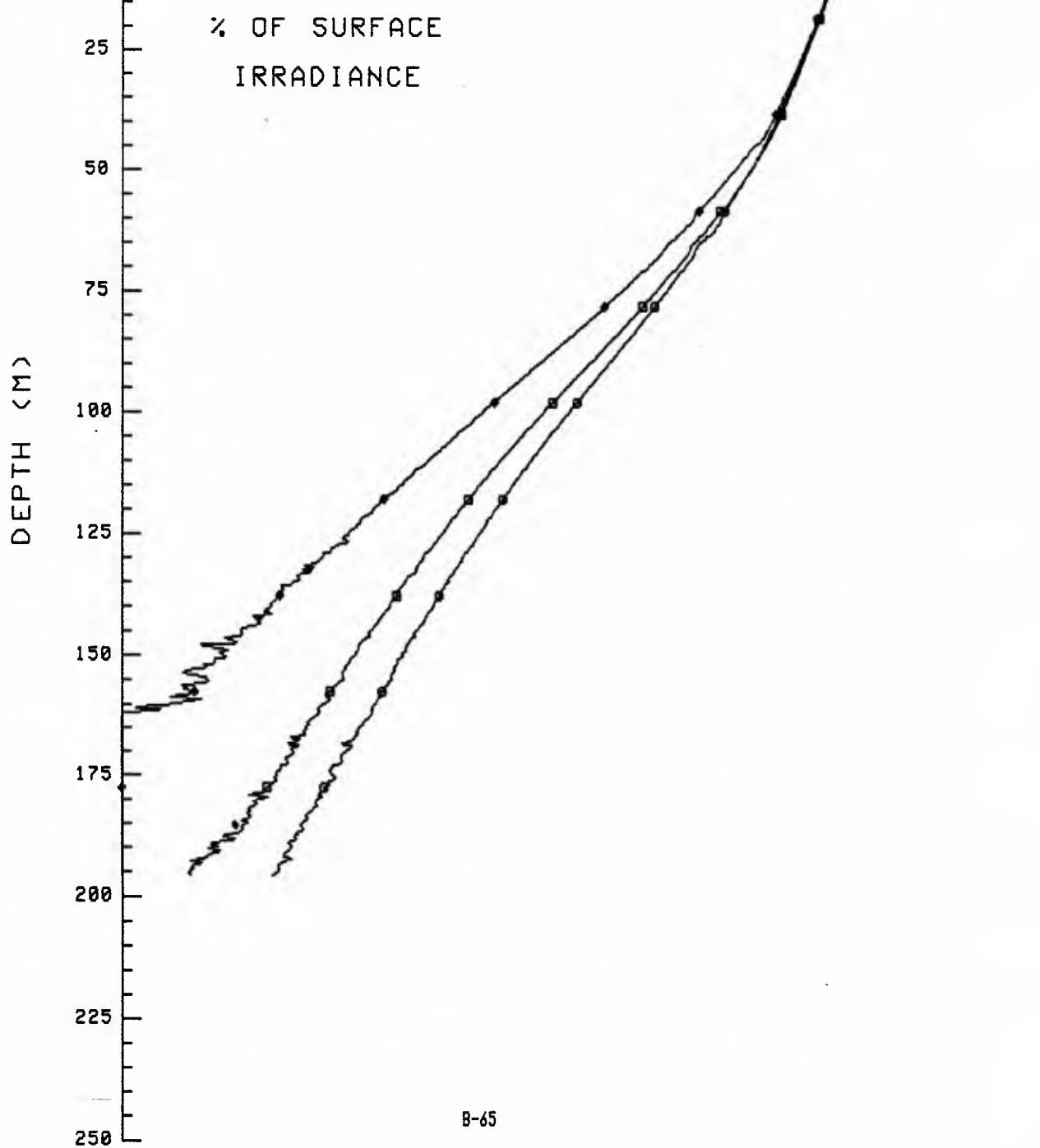
TEMP. °C  
C 665 #3  
LOG 488 NM.

7	10	13	16	19	22
.35	.38	.41	.44	.47	.5
-4	-3	-2	-1	0	1



ODEX 3 STA 46 UP CAST 10-20-82 1911Z  
LATITUDE 34.3383N      LONGITUDE 130.4653W

LOG 465 NM.	0	-4	-3	-2	-1	0	1
LOG 441 NM.	□	-4	-3	-2	-1	0	1
LOG 410 NM.	◊	-4	-3	-2	-1	0	1



ODEX 3 STA 46 UP CAST 10-20-82 1911Z  
LATITUDE 34.3383N      LONGITUDE 130.4653W

LOG 540 NM. o -4

-3

-2

-1

0

1

LOG 520 NM. □ -4

-3

-2

-1

0

1

LOG 488 NM. ♦ -4

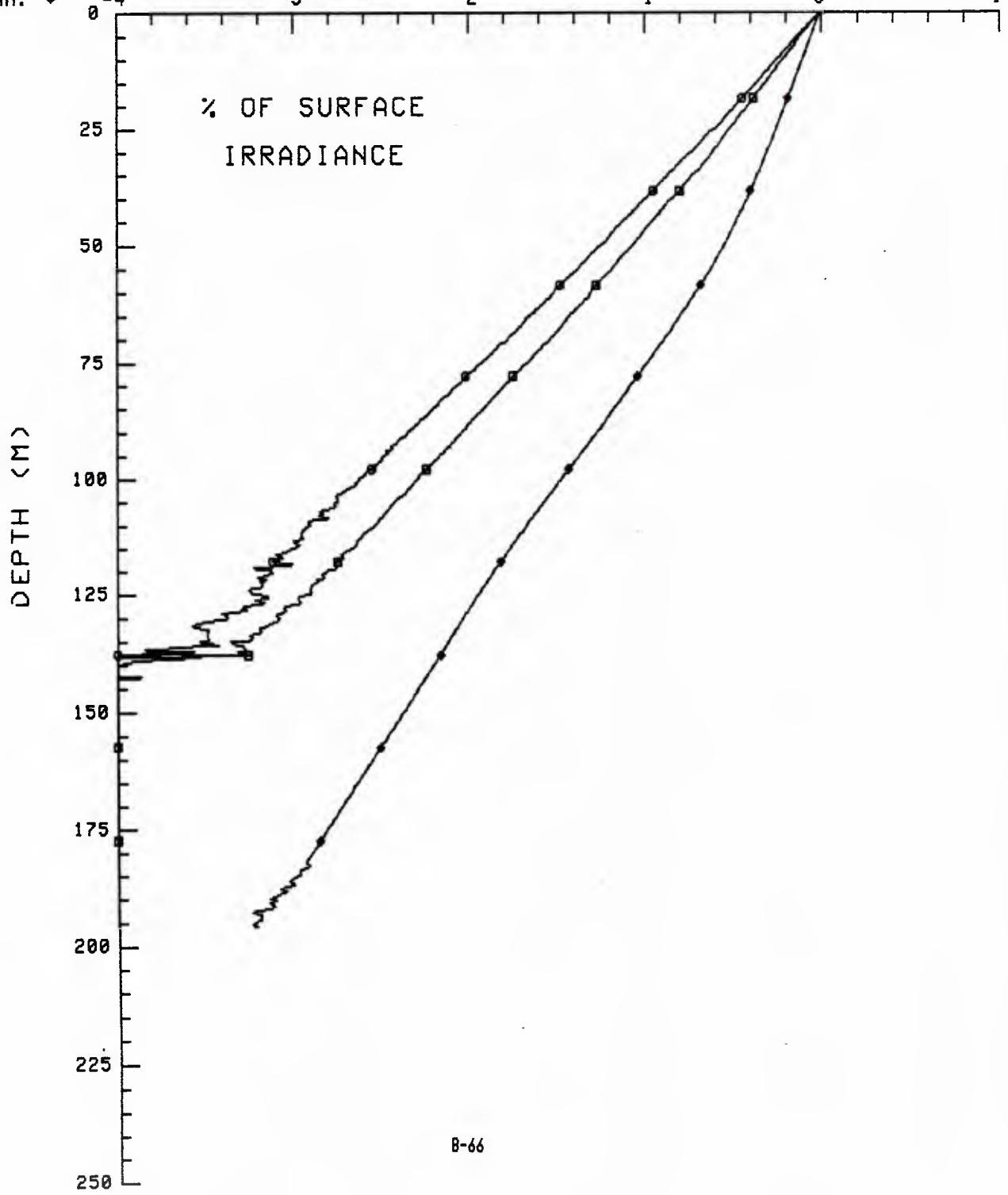
-3

-2

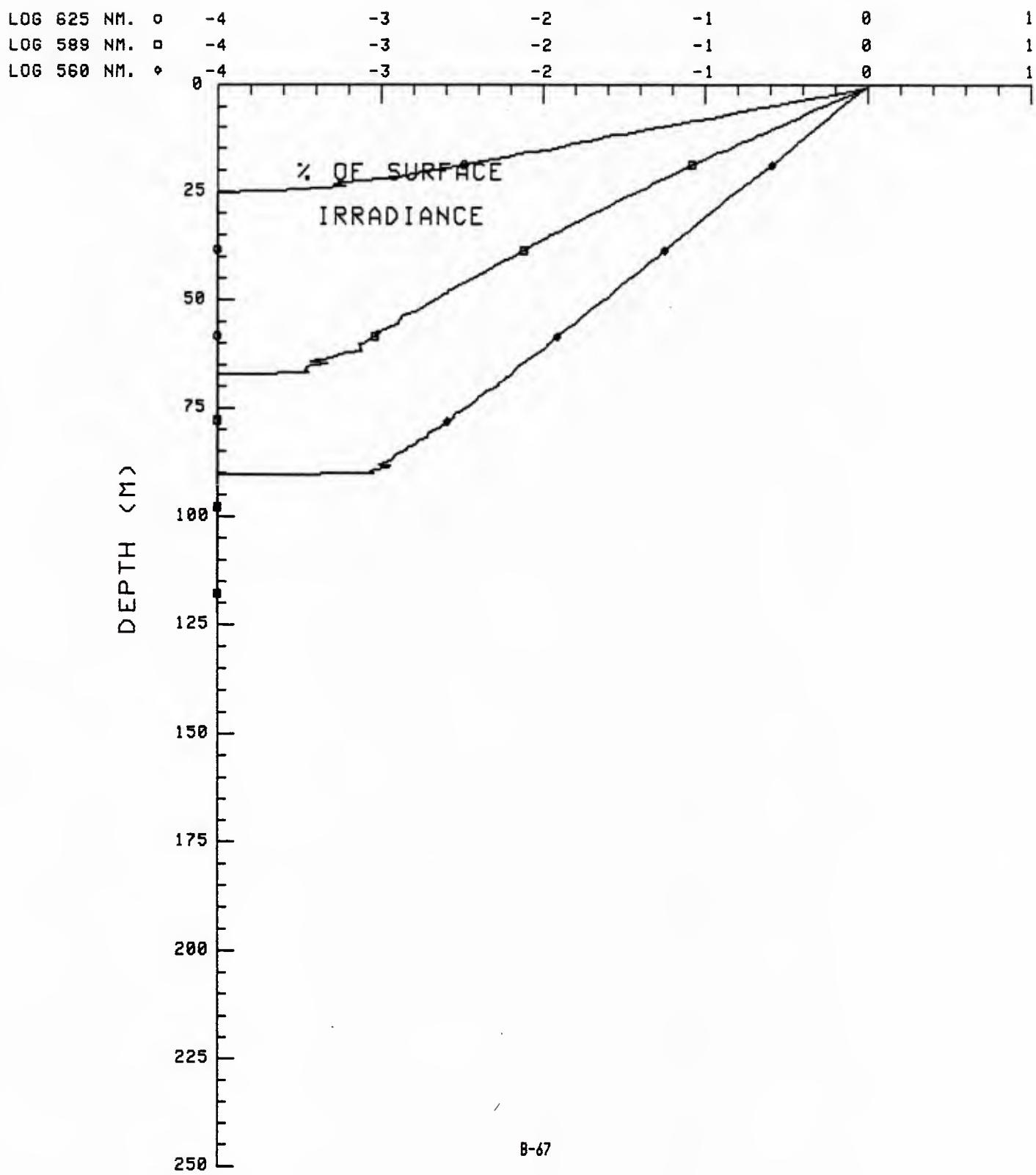
-1

0

1



ODEX 3 STA 46 UP CAST 10-20-82 1911Z  
LATITUDE 34.3303N LONGITUDE 130.4653W

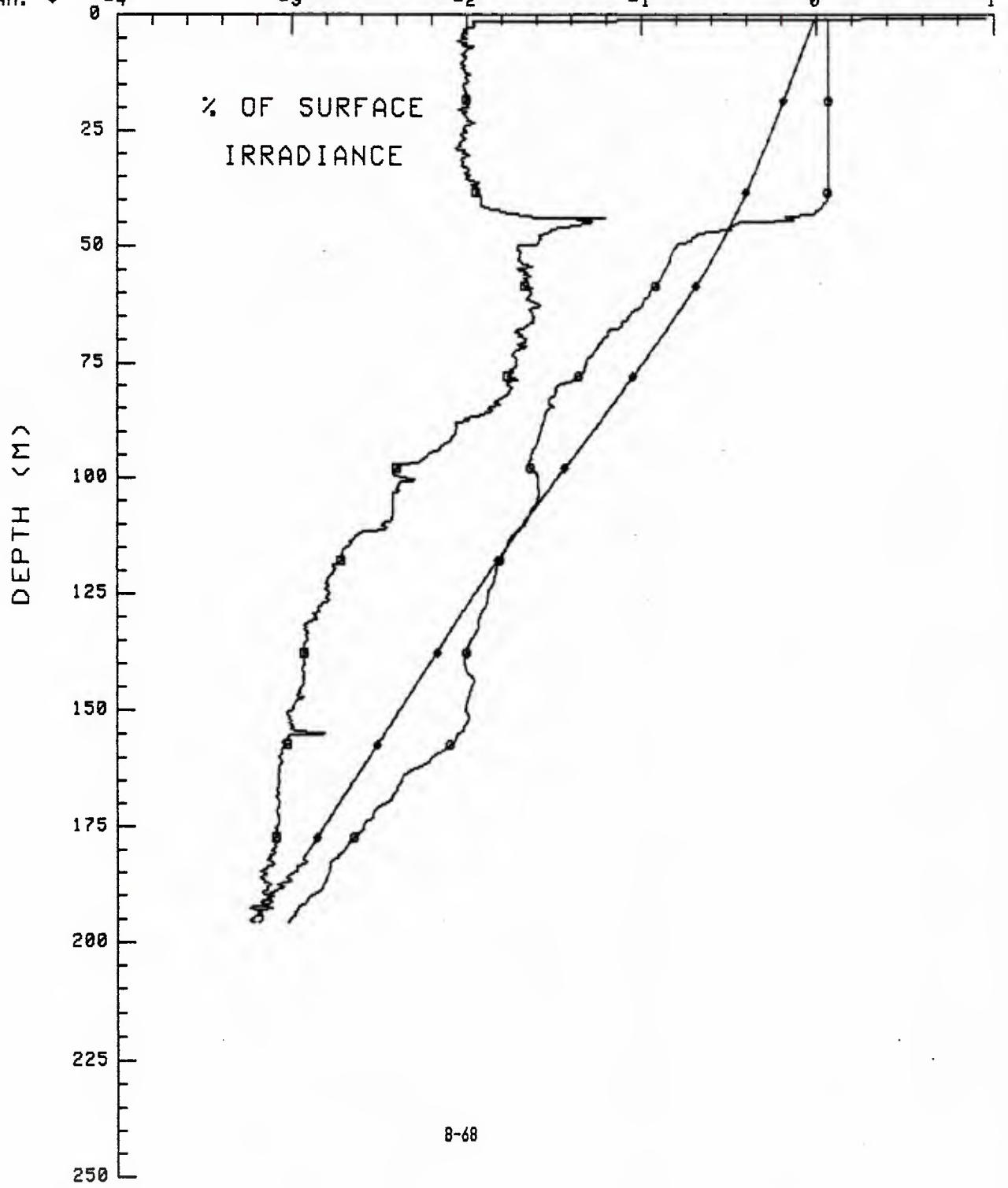


ODEX 3 STA 46 UP CAST 10-28-82 19112

LATITUDE 34.3383N

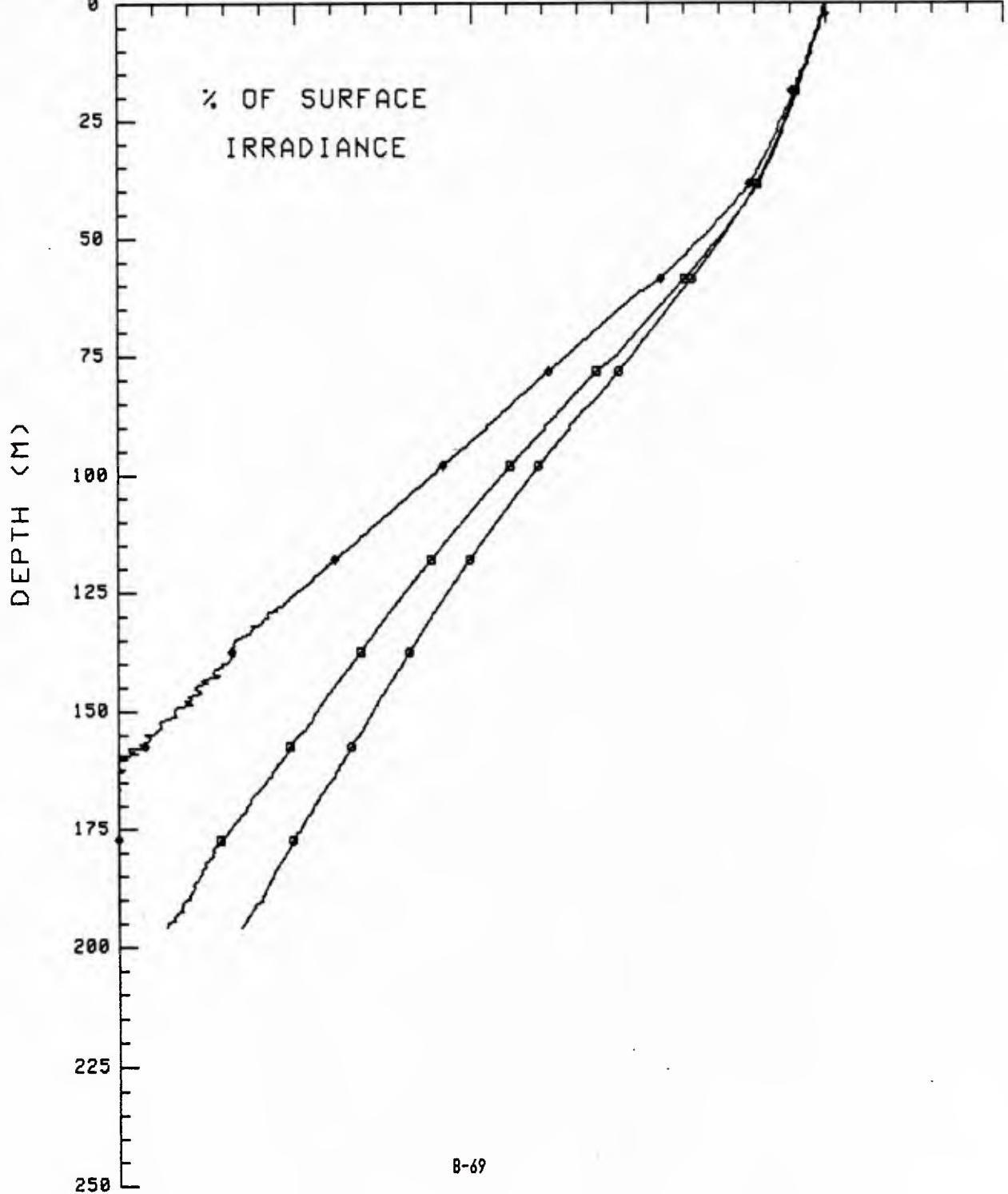
LONGITUDE 139.4653W

TEMP. 0 ?  
C 665 \*3 □ .35  
LOG 488 NM. ♀ -4



ODEX 3 STA 47 DN CAST 10-22-82 20552  
LATITUDE 34.1231N LONGITUDE 134.2236W

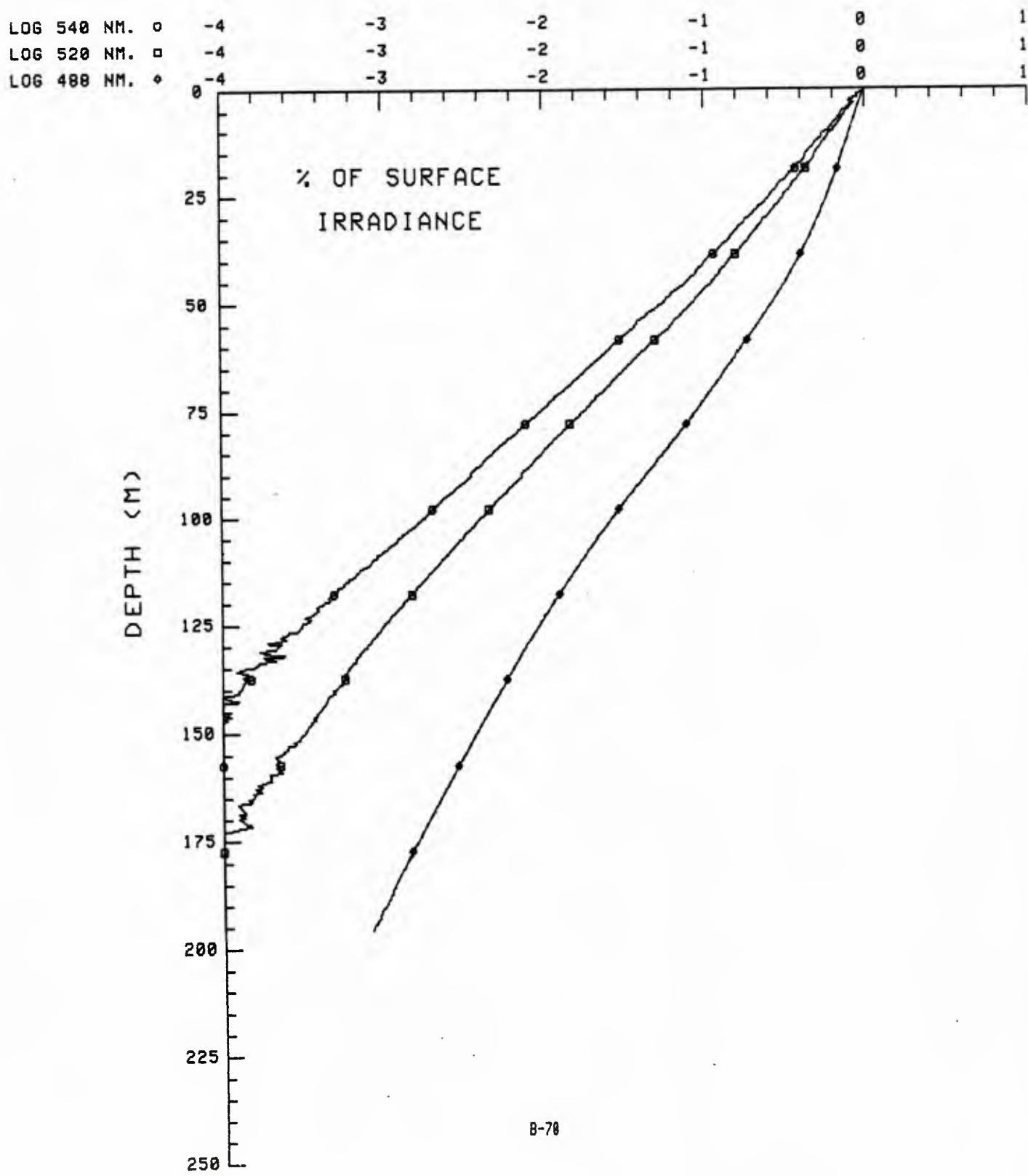
LOG 465 NM. ○ -4 -3 -2 -1 0 1  
LOG 441 NM. □ -4 -3 -2 -1 0 1  
LOG 410 NM. ♦ -4 -3 -2 -1 0 1



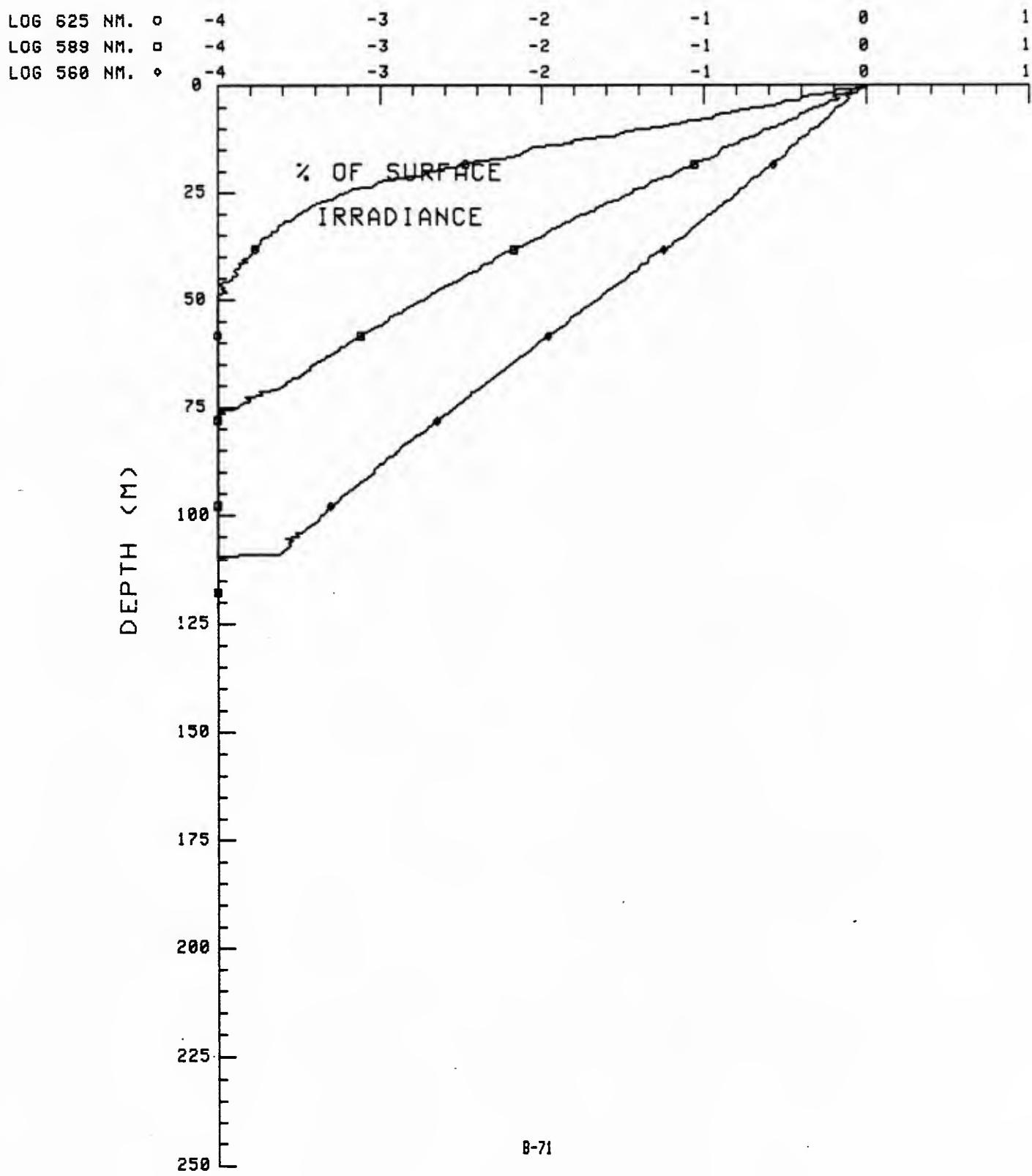
ODEX 3 STA 47 DN CAST 10-22-82 2855Z

LATITUDE 34.1231N

LONGITUDE 134.2236W



ODEX 3 STA 47 DN CAST 10-22-82 2055Z  
LATITUDE 34.1231N LONGITUDE 134.2236W

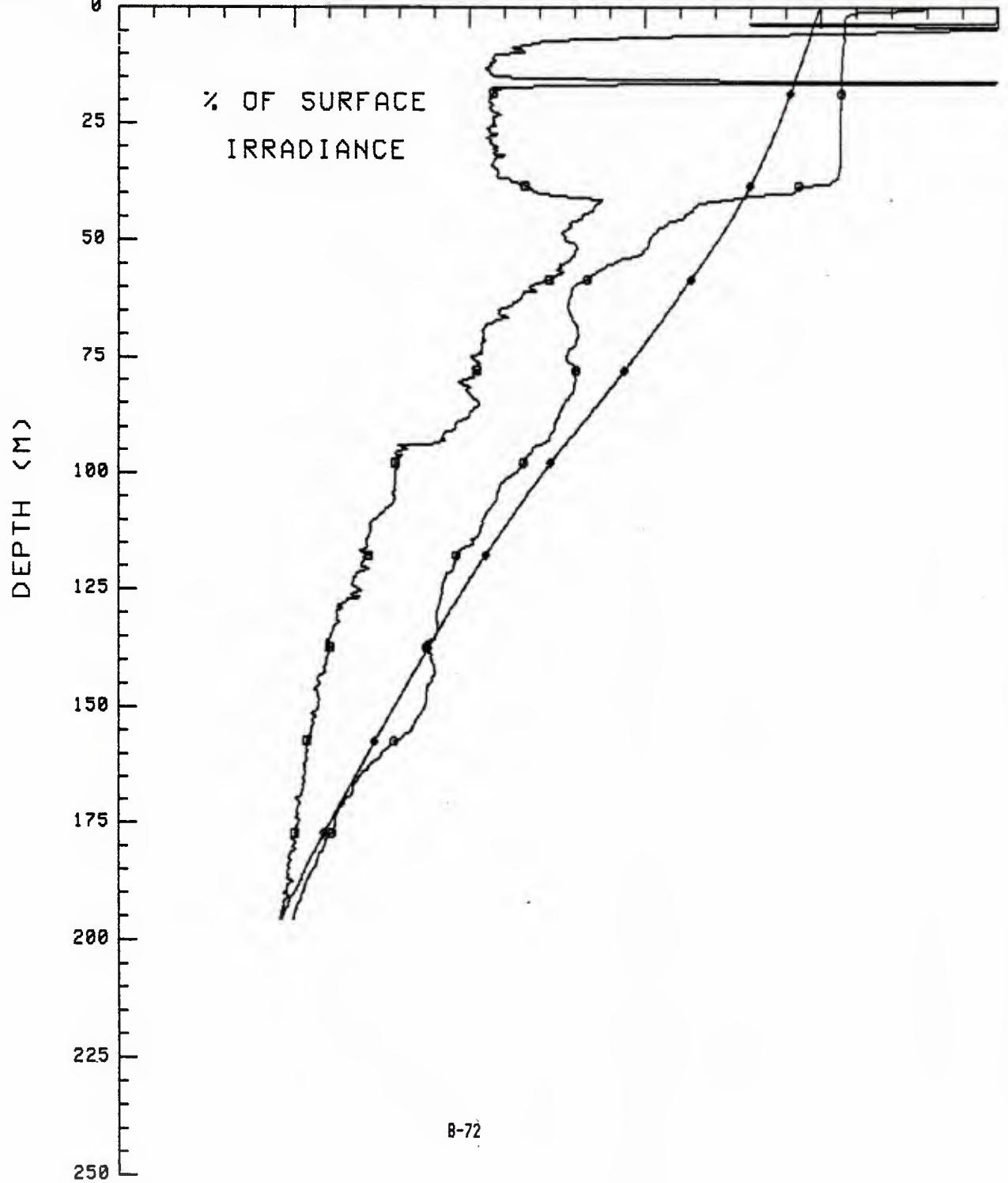


ODEX 3 STA 47 DN CAST 10-22-82 2055Z

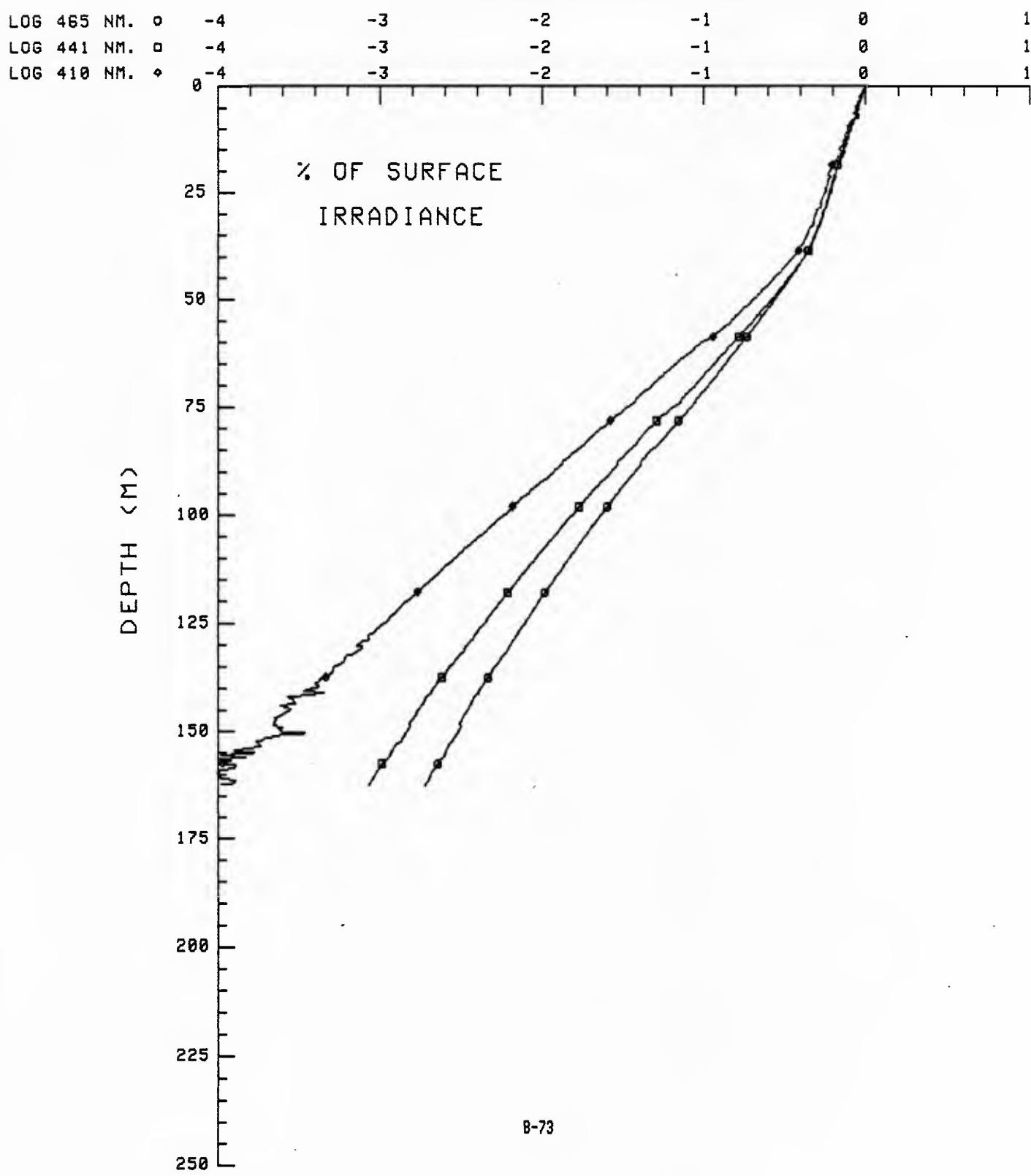
LATITUDE 34.123N

LONGITUDE 134.223W

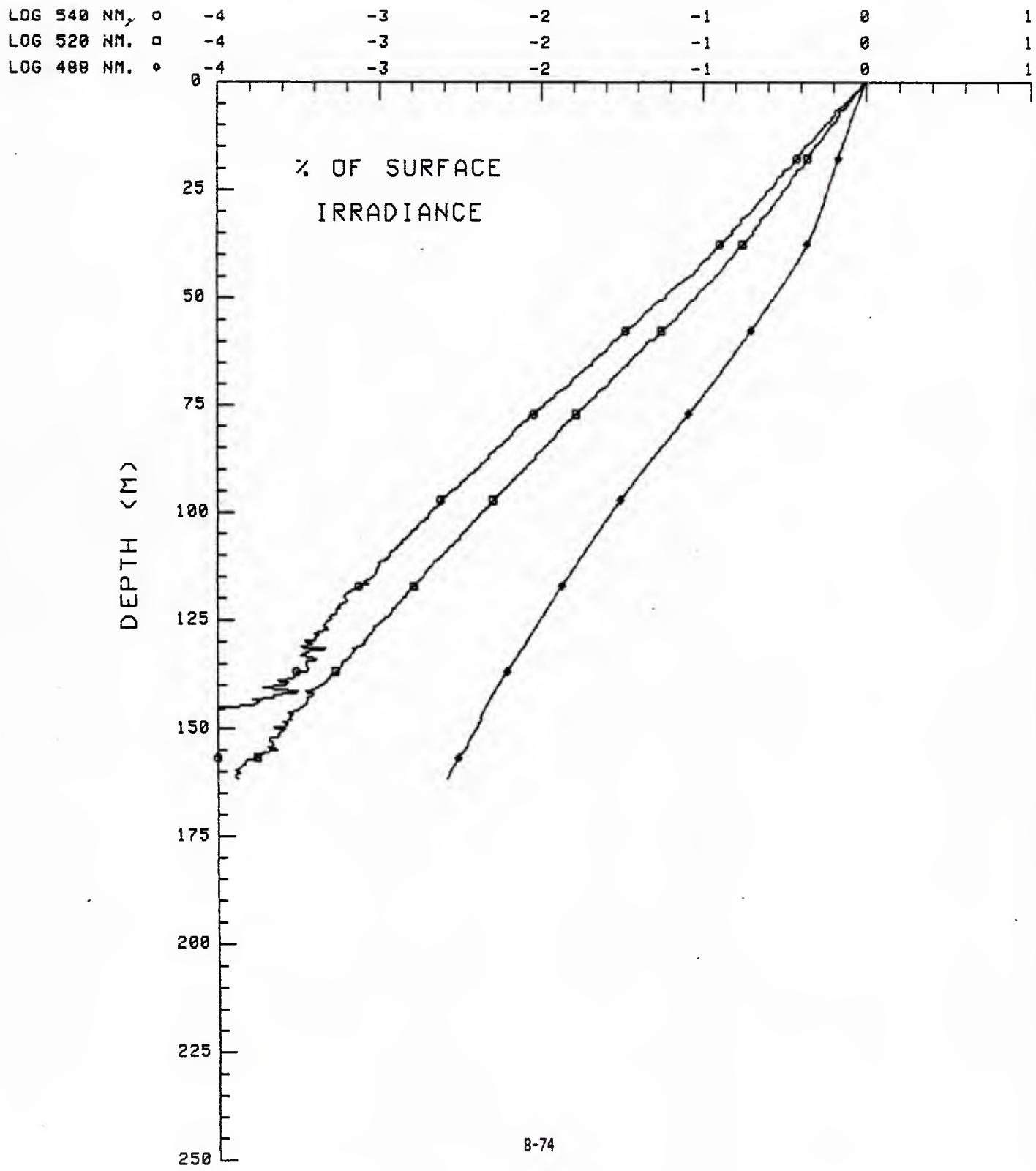
TEMP. ° 7 10 13 16 19 22  
C 665 \*3 □ .35 .38 .41 .44 .47 .5  
LOG 488 NM. ° -4 -3 -2 -1 0 1



ODEX 3 STA 47 UP CAST 18-22-82 2129Z  
LATITUDE 34.1231N LONGITUDE 134.2236E

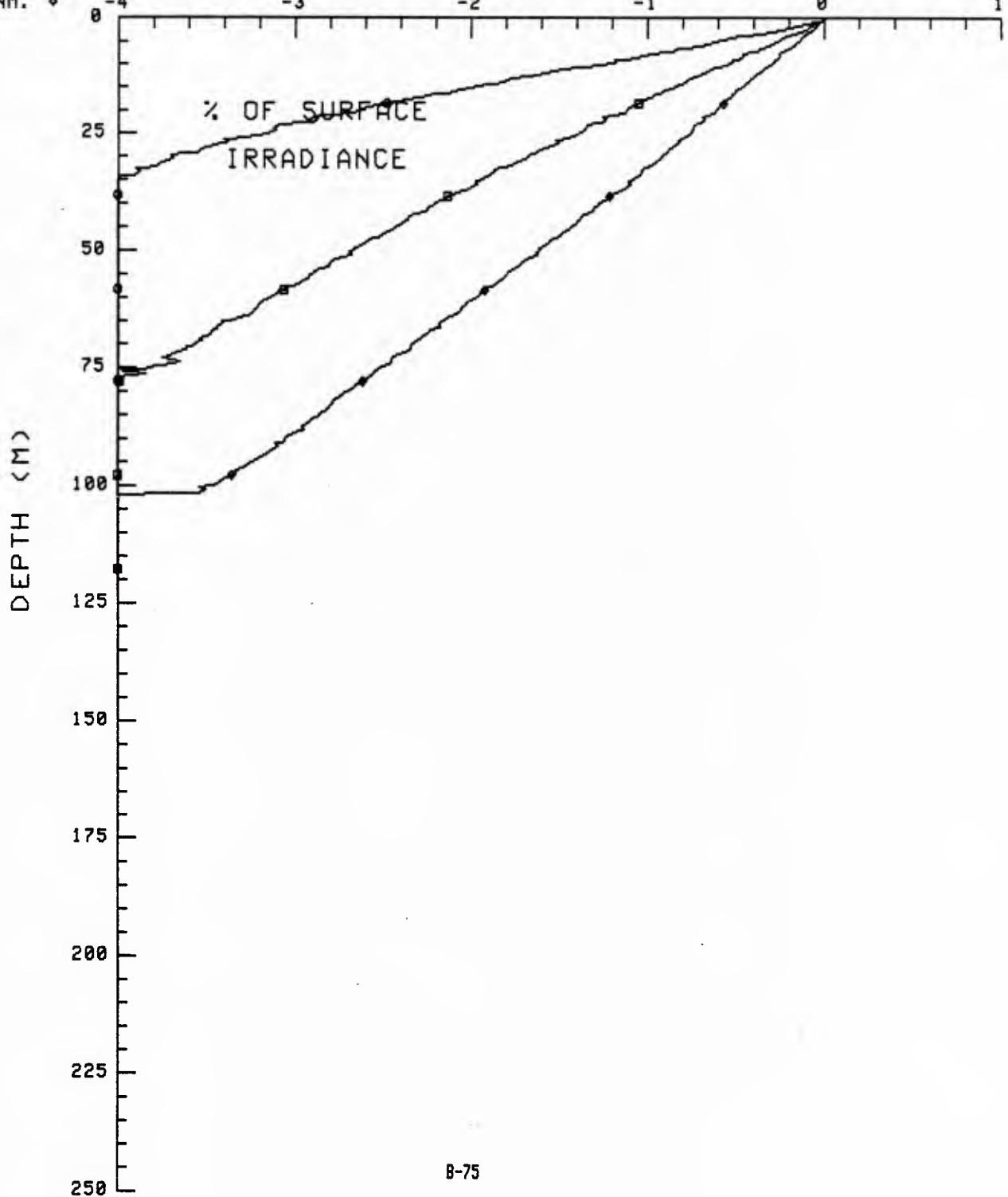


ODEX 3 STA 47 UP CAST 10-22-82 2129Z  
LATITUDE 34.1231N LONGITUDE 134.2236W



ODEX 3 STA 47 UP CAST 10-22-82 2129Z  
LATITUDE 34.1231N      LONGITUDE 134.2236W

LOG 625 NM. 0 -4  
LOG 589 NM. □ -4  
LOG 560 NM. ◊ -4



ODEX 3 STA 47 UP CAST 10-22-82 2129Z

LATITUDE 34.1231N

LONGITUDE 134.2236W

TEMP. °C  
C 665 #3  
LOG 488 NM.

7  
.35  
-4

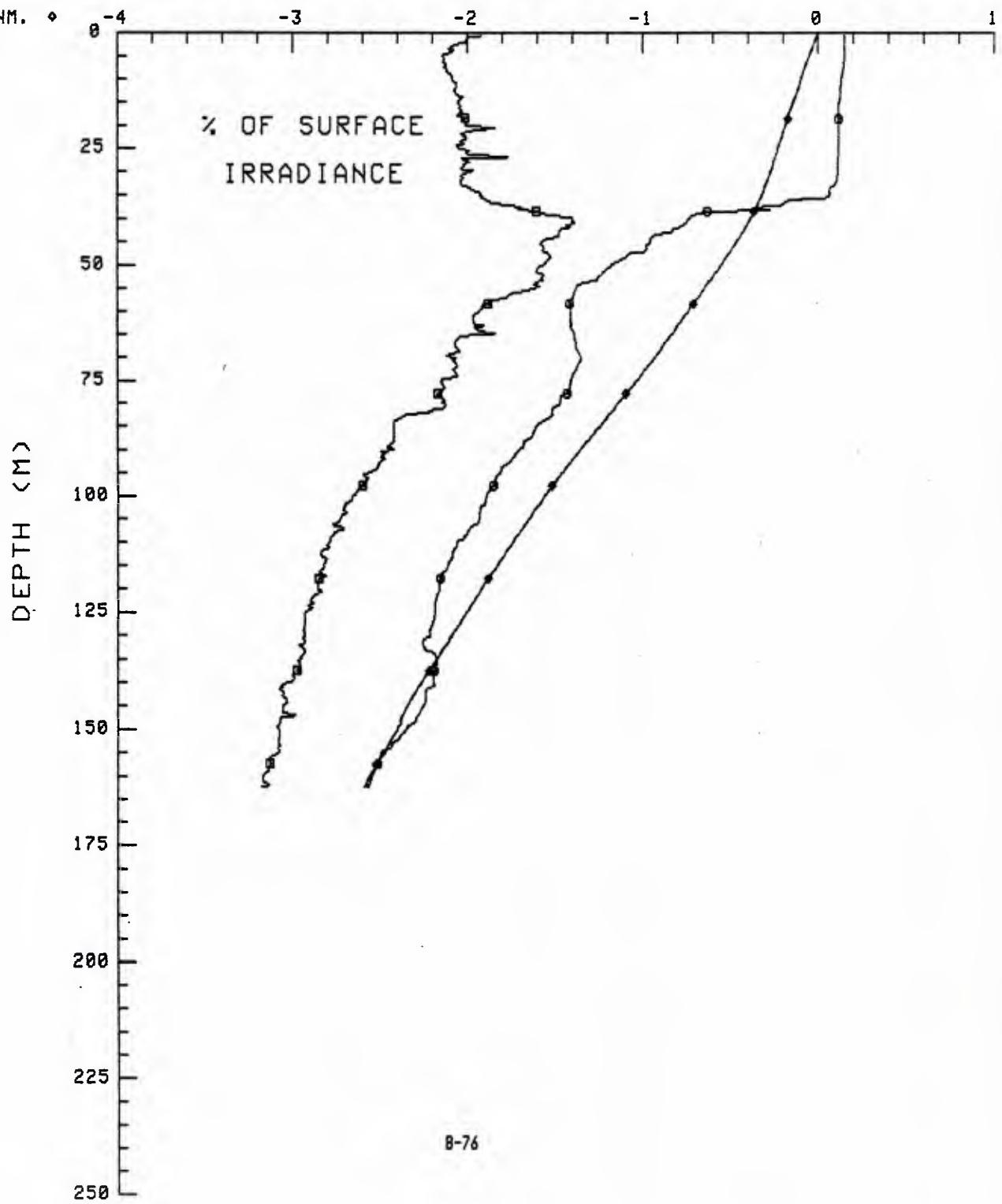
10  
.38  
-3

13  
.41  
-2

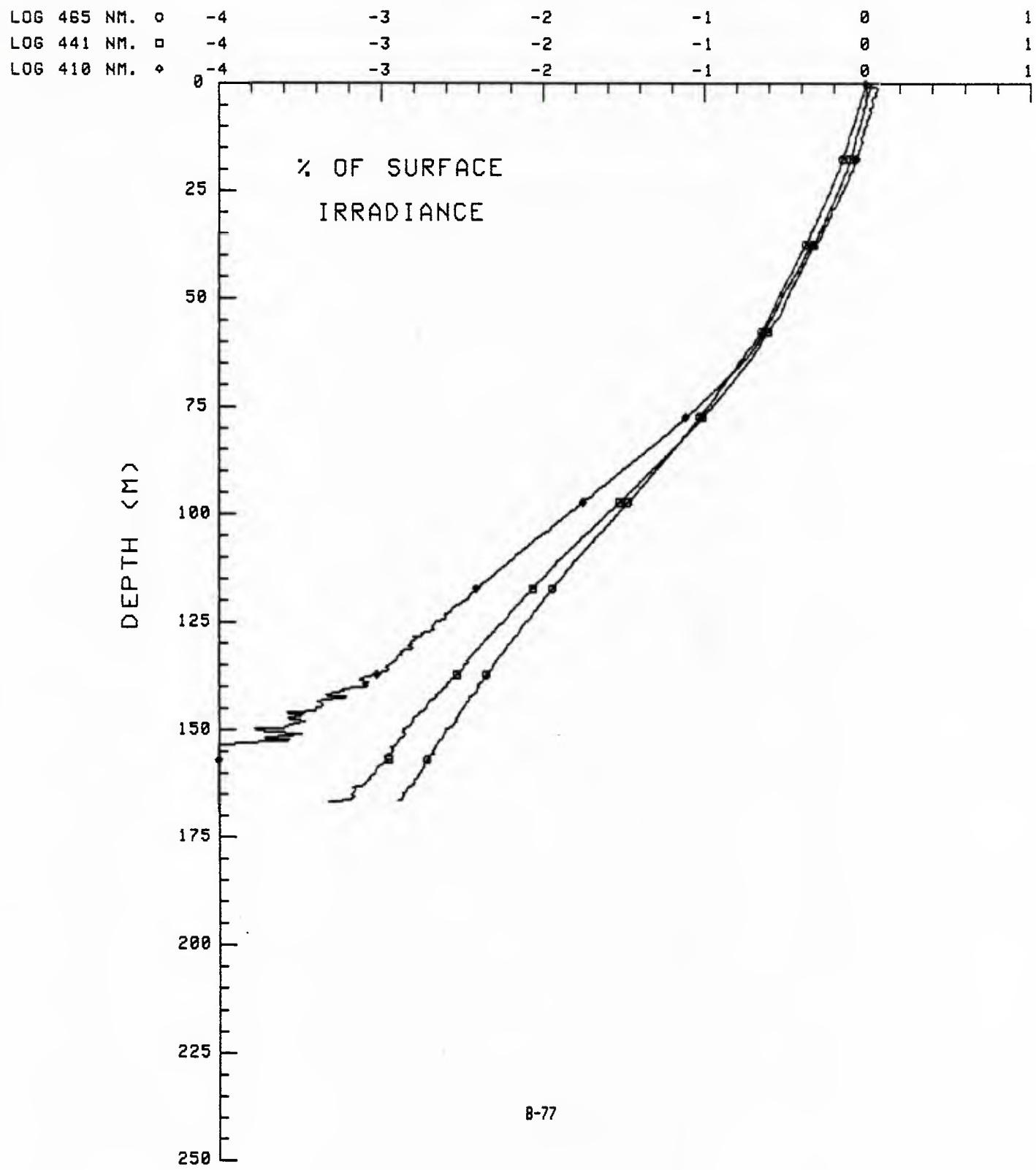
16  
.44  
-1

19  
.47  
0

22  
.5  
1



ODEX 3 STA 51 UP CAST 10-26-82 00442  
LATITUDE 34.8128N LONGITUDE 141.0898W



ODEX 3 STA 51 UP CAST 10-26-82 0044Z

LATITUDE 34.8128N

LONGITUDE 141.0898W

LOG 540 NM. n -4

-3

-2

-1

0

1

LOG 520 NM. □ -4

-3

-2

-1

0

1

LOG 488 NM. ♦ -4

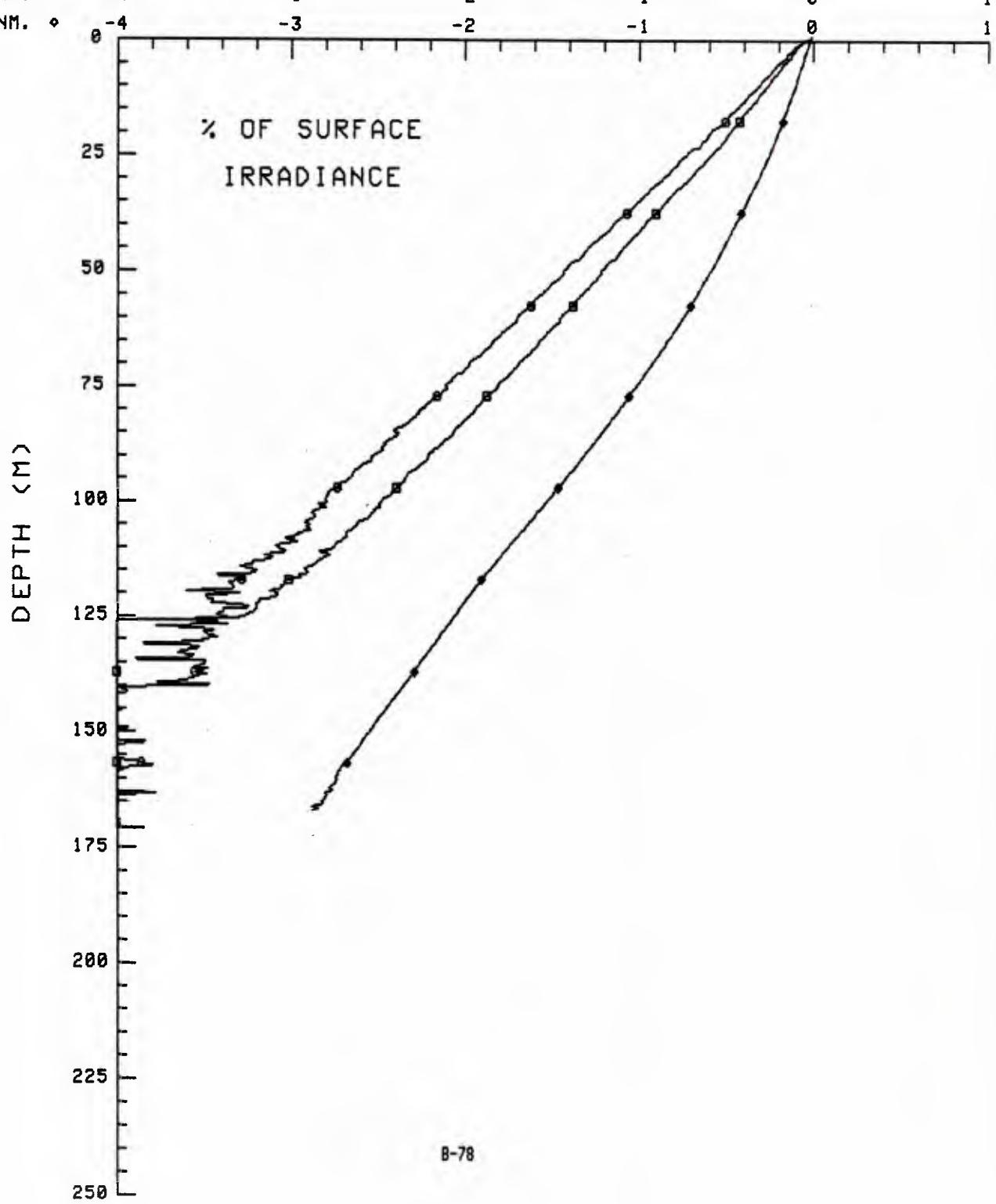
-3

-2

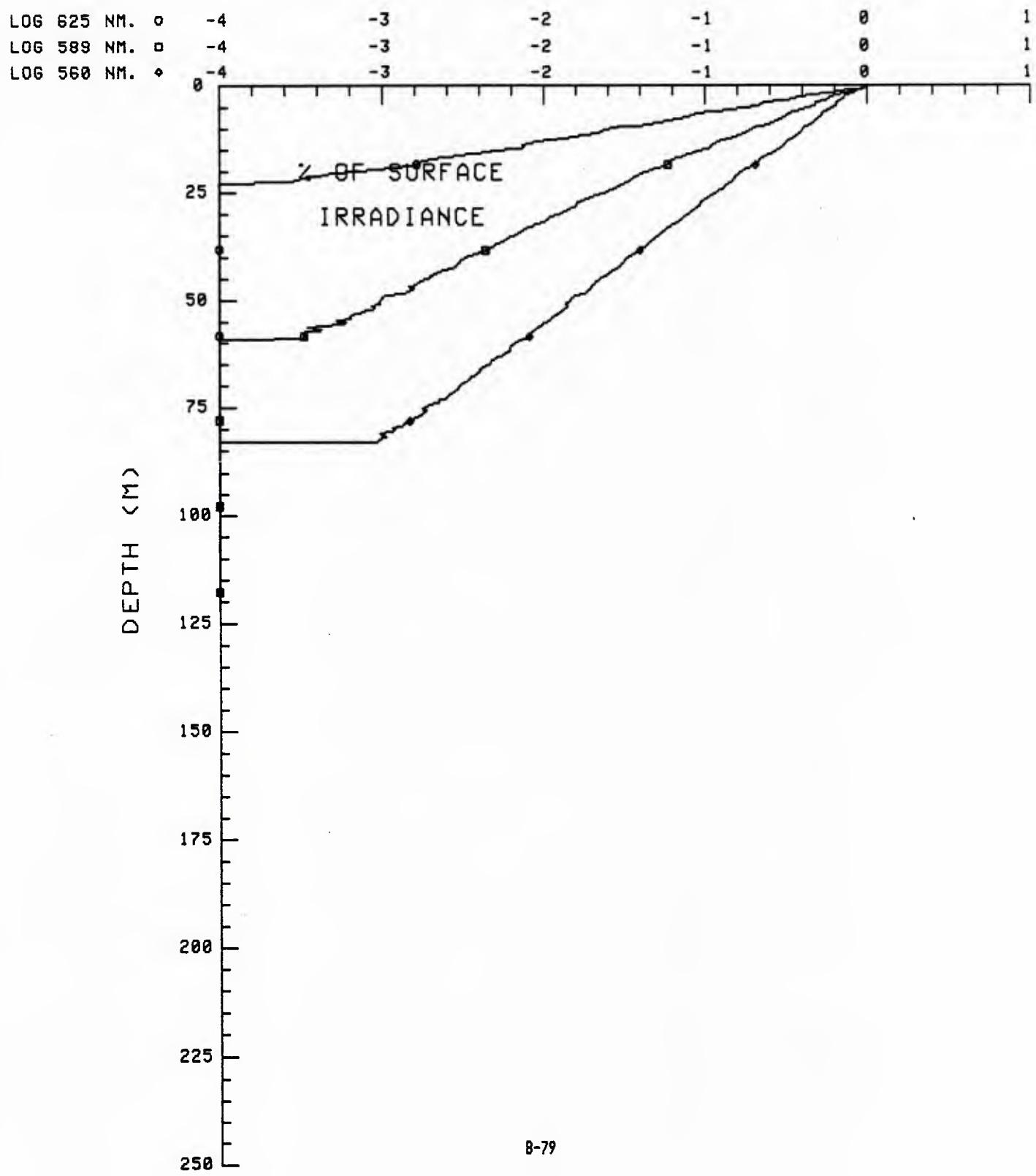
-1

0

1

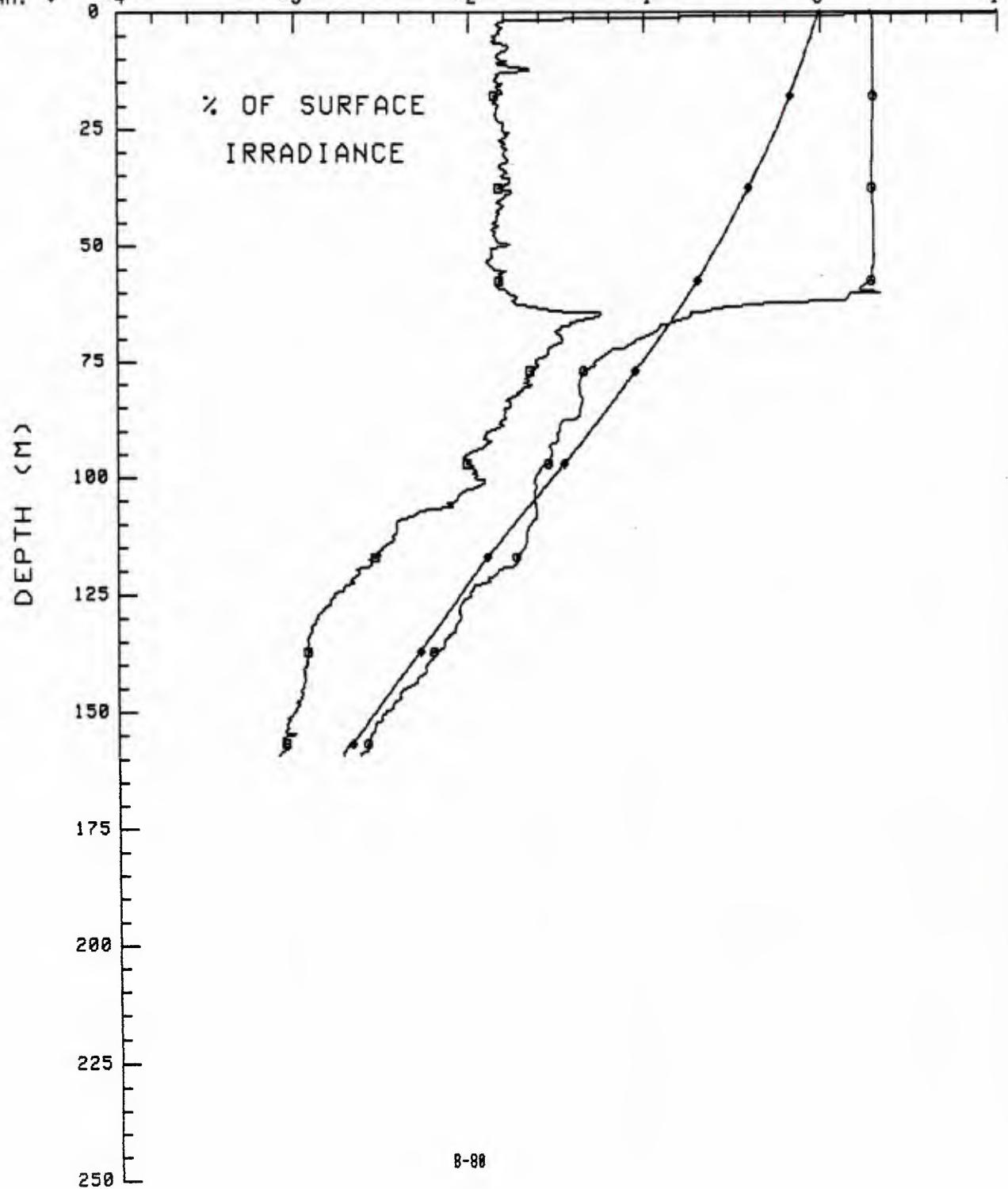


ODEX 3 STA 51 UP CAST 10-26-82 0044Z  
LATITUDE 34.8128N LONGITUDE 141.0898W



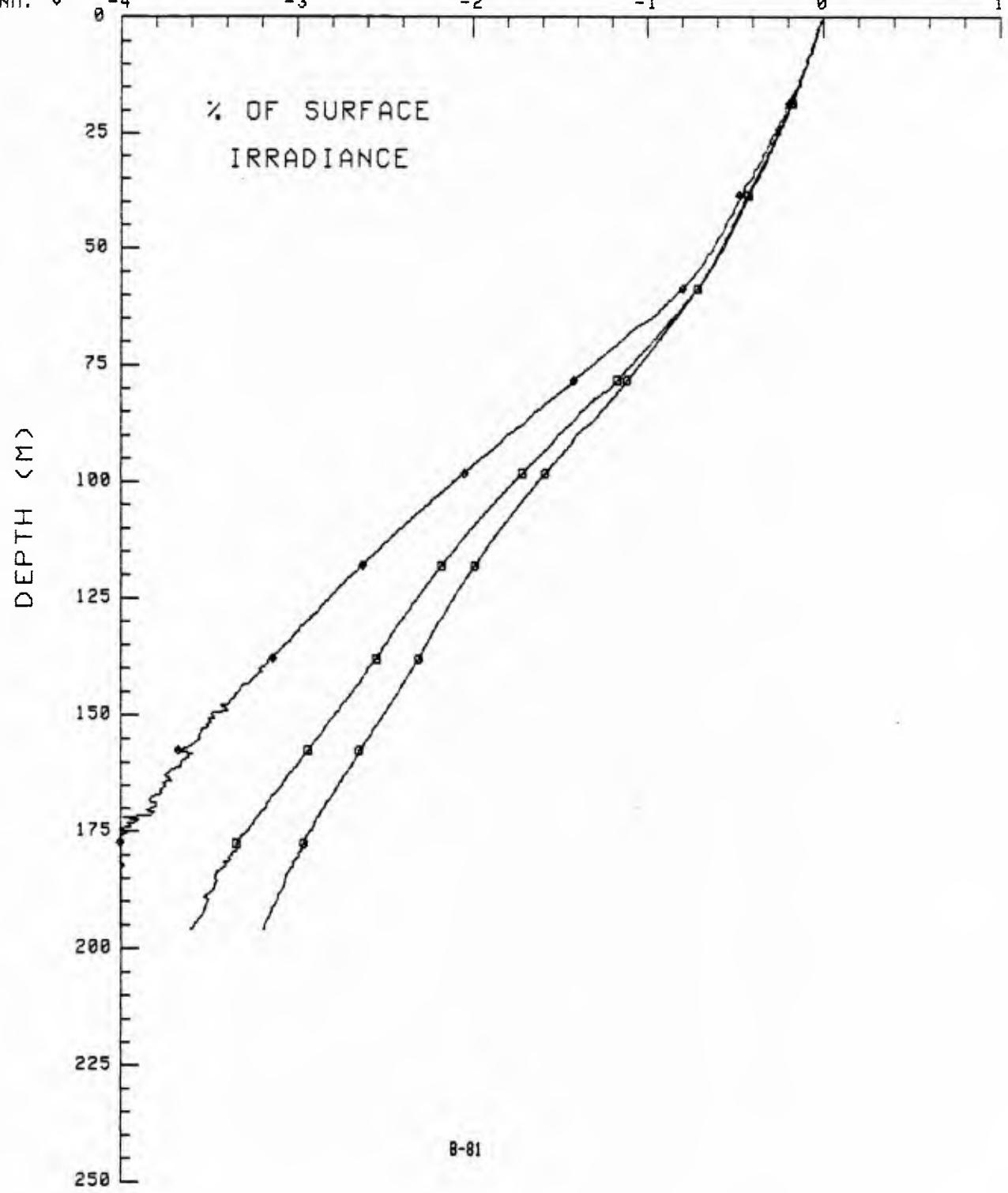
ODEX 3 STA 51 UP CAST 10-26-82 0044Z  
LATITUDE 34.0128N      LONGITUDE 141.0898W

TEMP. °C 665 #3 LOG 488 NM. ° 0 7 10 13 16 19 22  
.35 .38 .41 .44 .47 .5

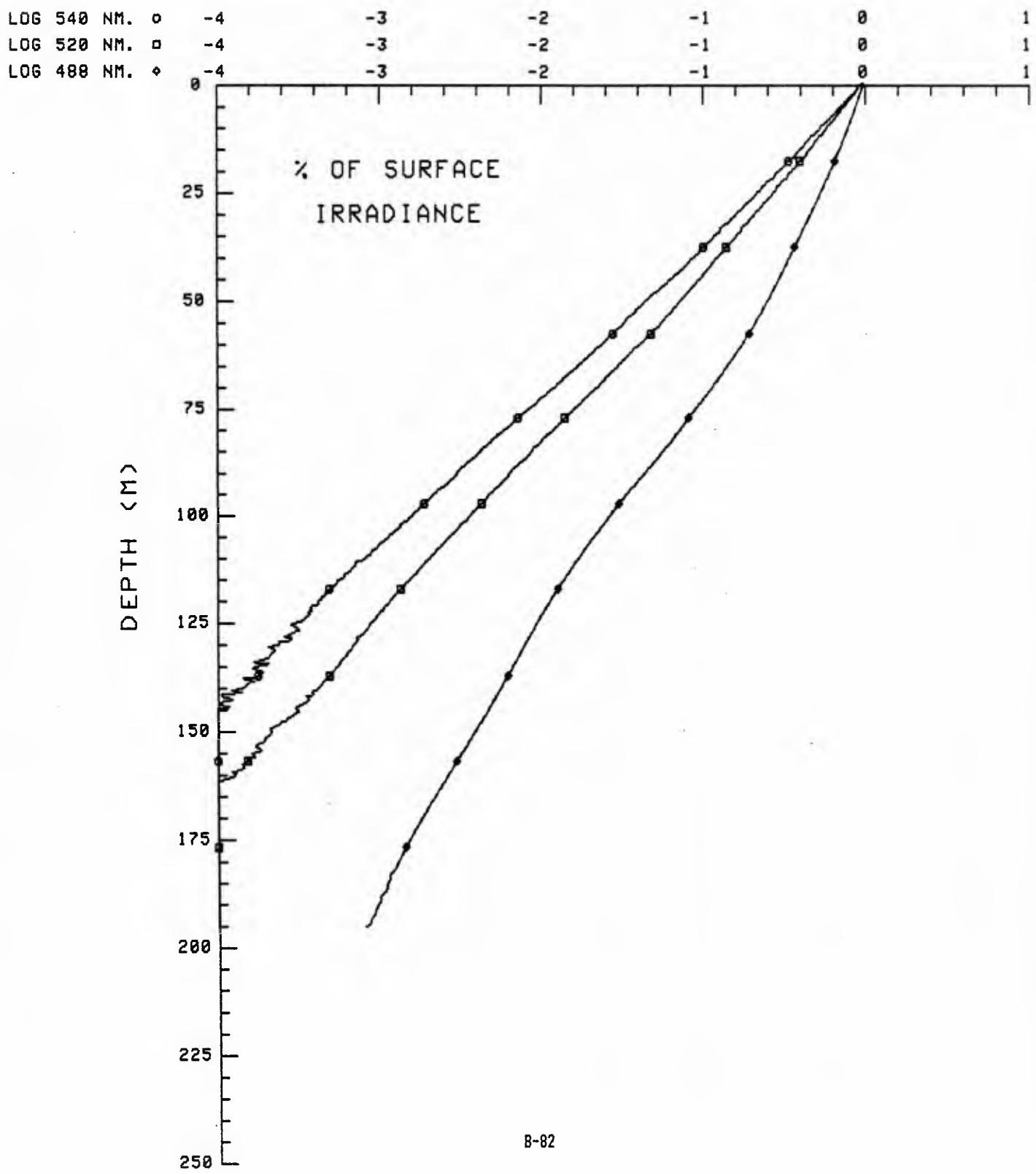


ODEX 3 STA 58 DN CAST 10-27-82 2143Z  
LATITUDE 33.5810N      LONGITUDE 142.0630W

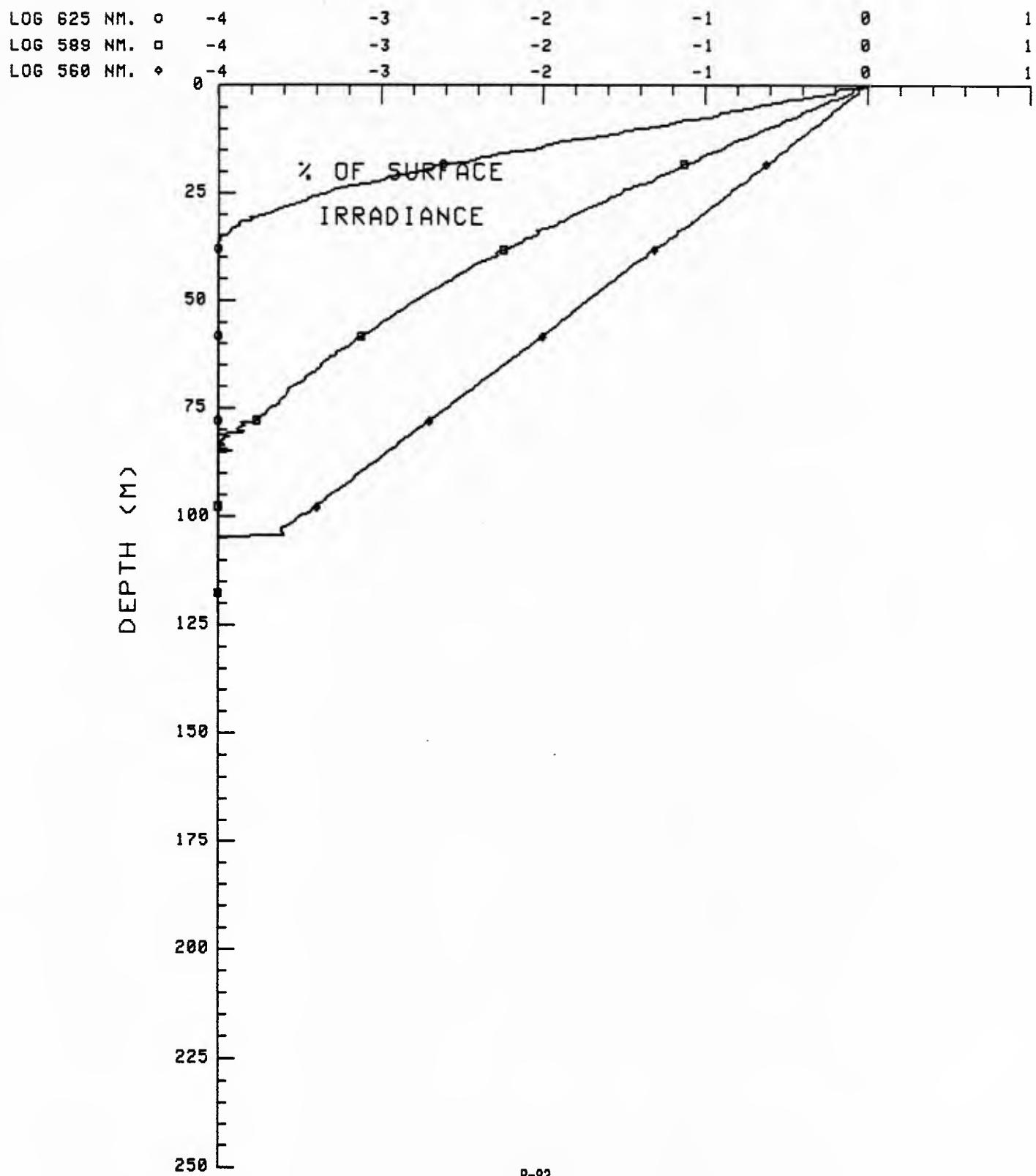
LOG 465 NM. ◯ -4  
LOG 441 NM. □ -4  
LOG 410 NM. ◆ -4



ODEX 3 STA 58 DN CAST 10-27-82 2143Z  
LATITUDE 33.5810N      LONGITUDE 142.0630W



ODEX 3 STA 58 DN CAST 10-27-82 2143Z  
LATITUDE 33.5810N      LONGITUDE 142.8630W

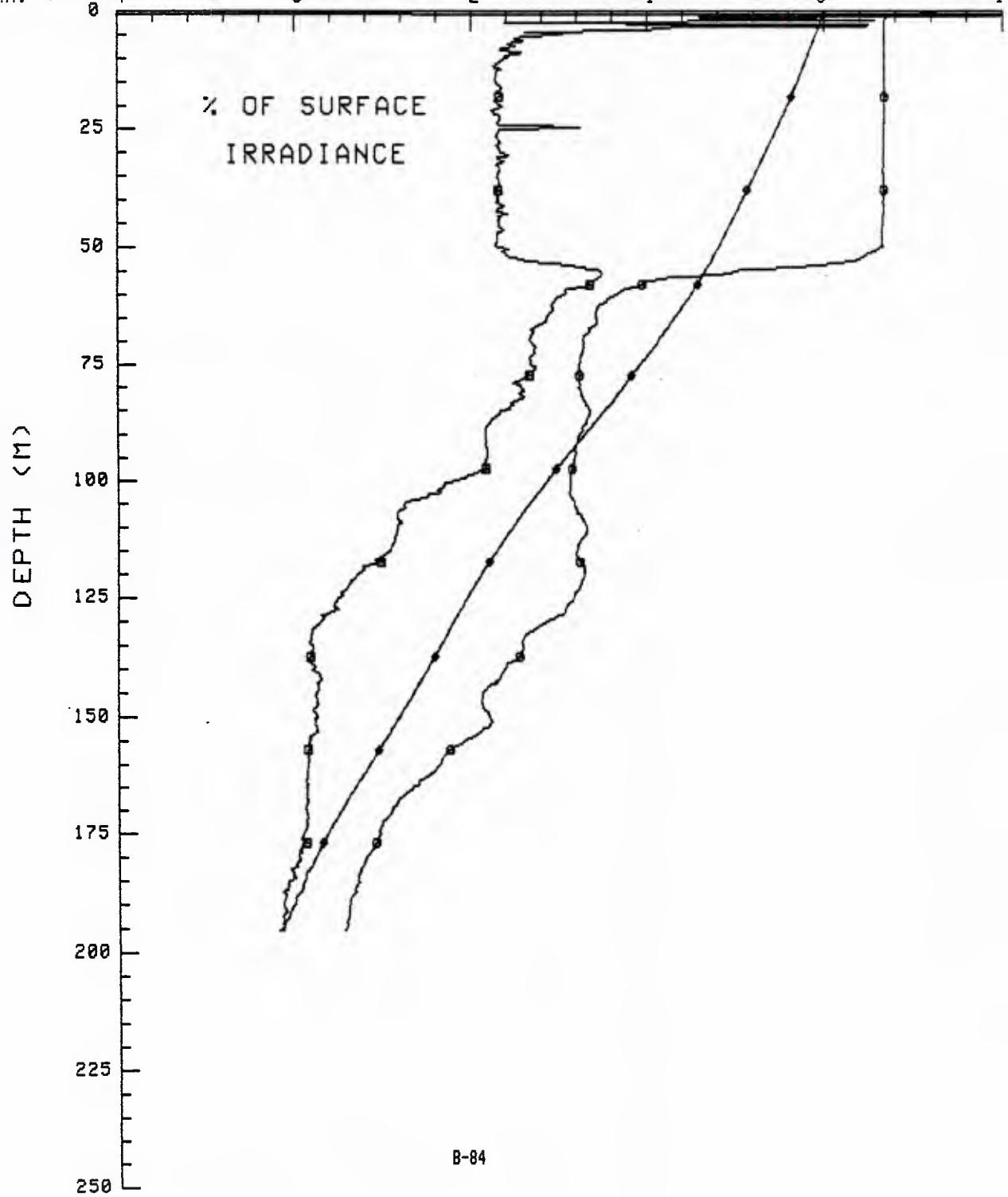


ODEX 3 STA 58 ON CAST 18-27-82 2143Z

LATITUDE 33.5810N

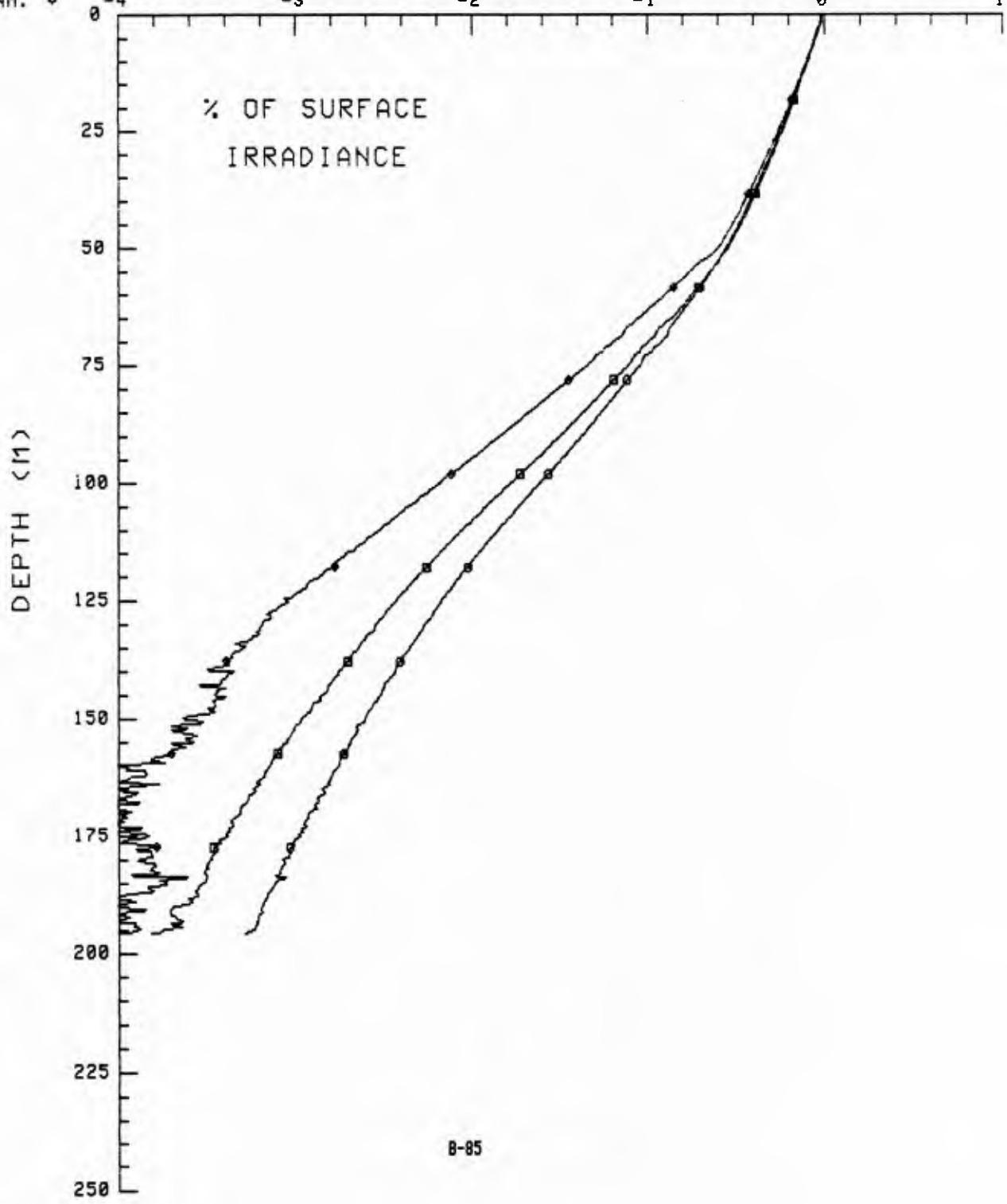
LONGITUDE 142.8630W

TEMP. °C	7	10	13	16	19	22
C 665 #3 D	.35	.38	.41	.44	.47	.5
LOG 488 NM. ♦	-4	-3	-2	-1	0	1

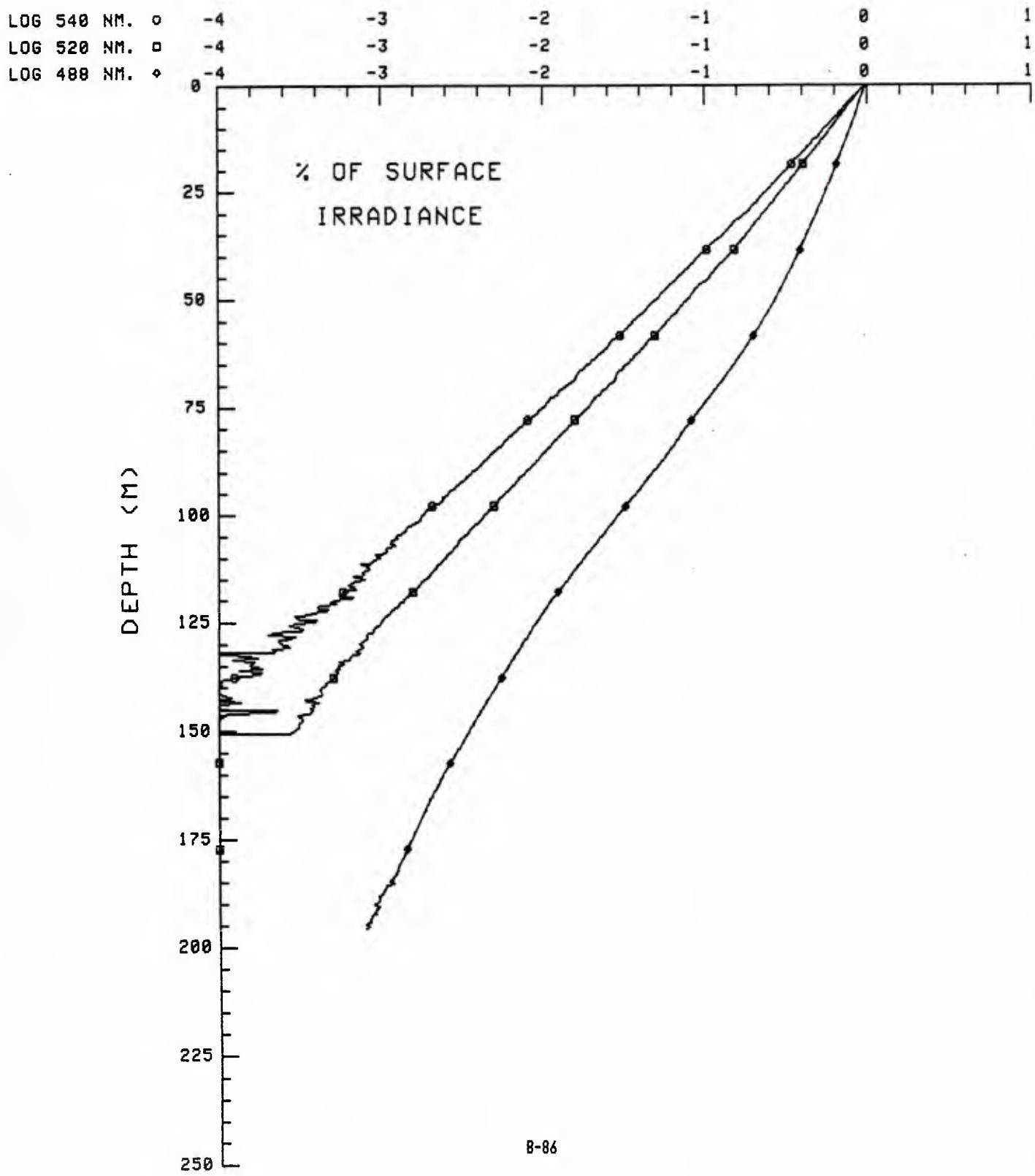


ODEX 3 STA 63 DN CAST 10-28-82 2213Z  
LATITUDE 33.4478N LONGITUDE 141.1768W

LOG 465 NM. o -4 -3 -2 -1 0 1  
LOG 441 NM. □ -4 -3 -2 -1 0 1  
LOG 410 NM. ♦ -4 -3 -2 -1 0 1



ODEX 3 STA 63 DN CAST 10-28-82 2213Z  
LATITUDE 33.4478N      LONGITUDE 141.1768W



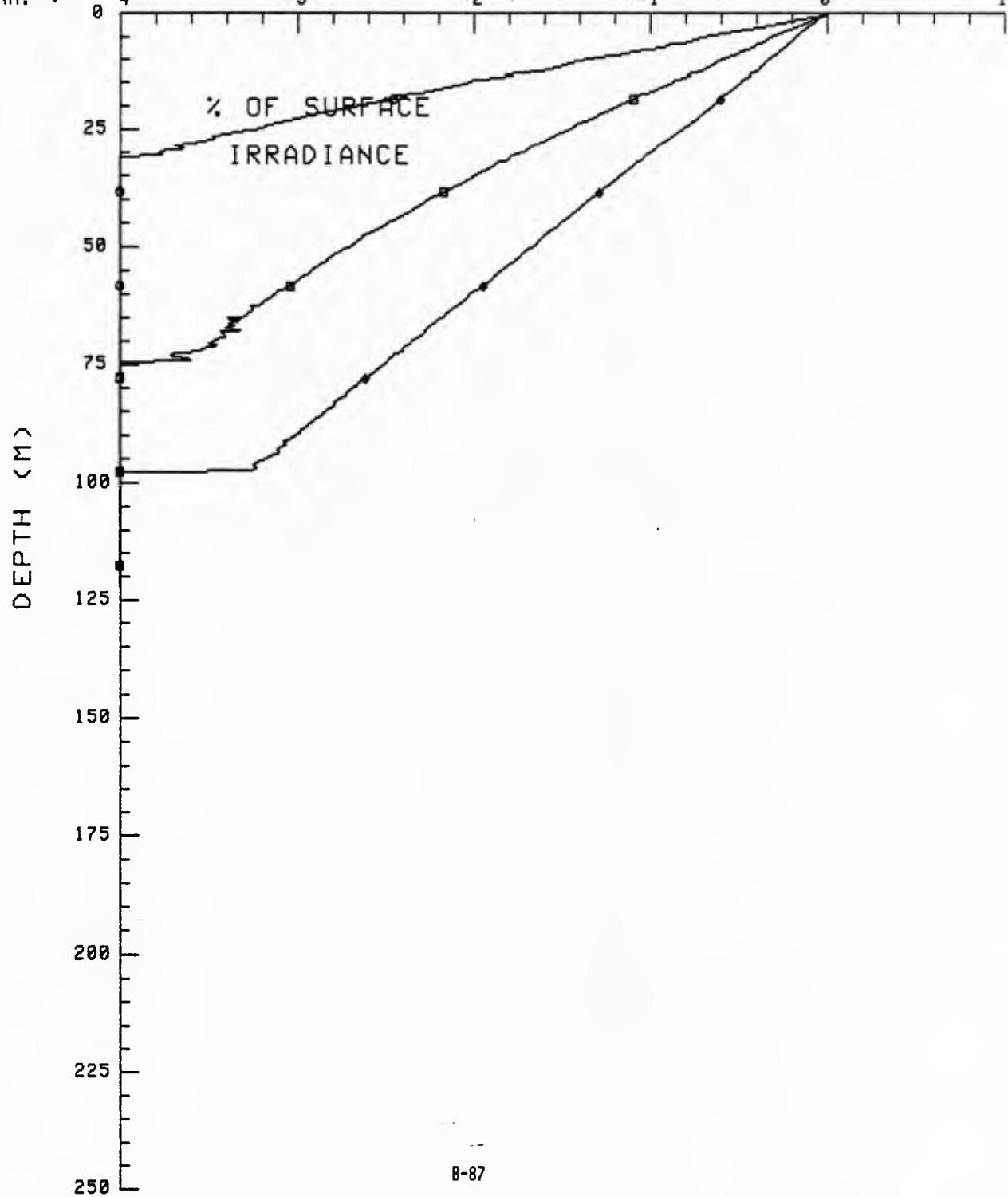
ODEX 3 STA 63 DN CAST 10-28-82 2213Z  
LATITUDE 33.4478N LONGITUDE 141.1760W

LOG 625 NM. o -4  
LOG 589 NM. □ -4  
LOG 560 NM. ♦ -4

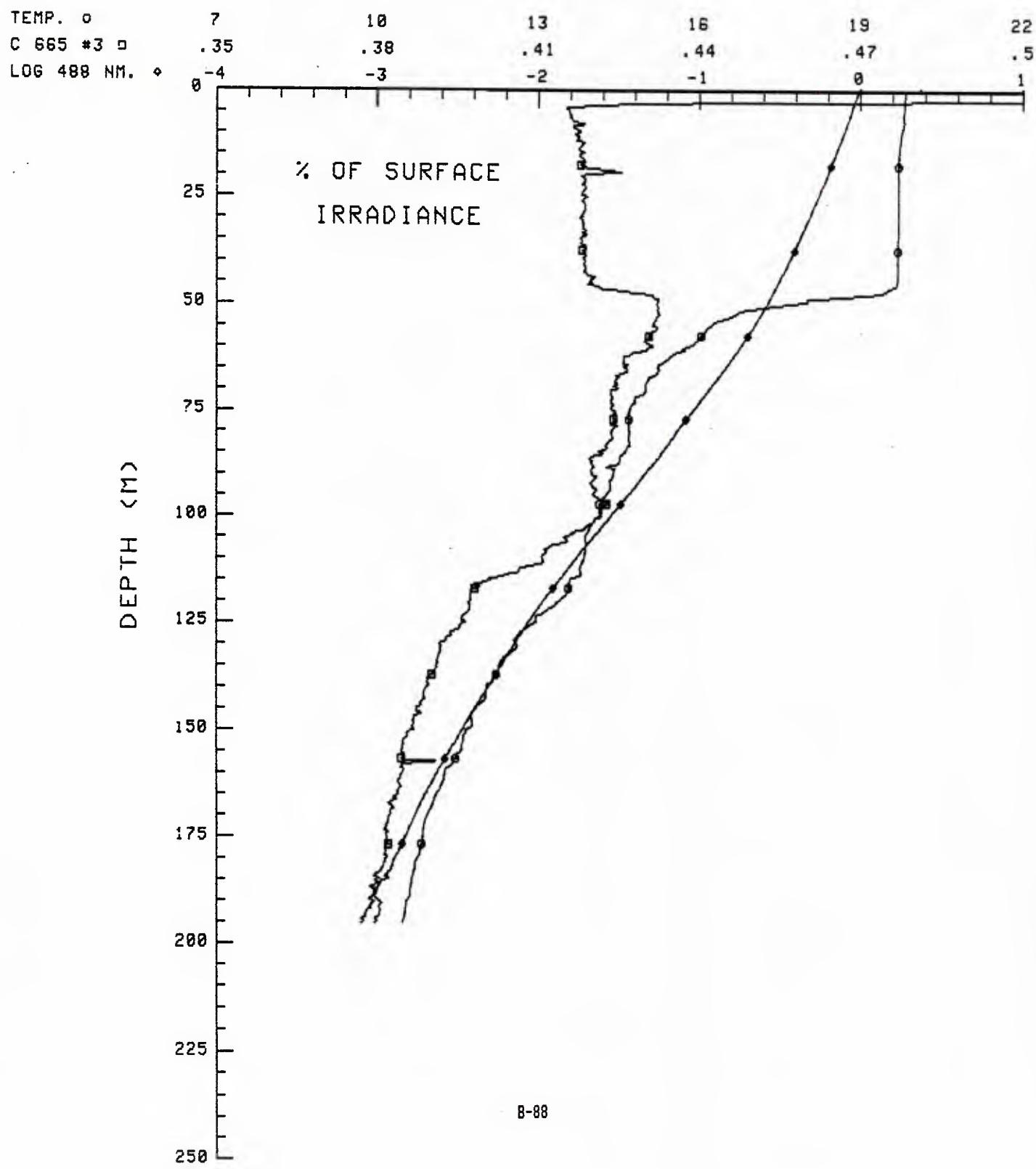
-3 -2 -1 0 1

-3 -2 -1 0 1

-3 -2 -1 0 1

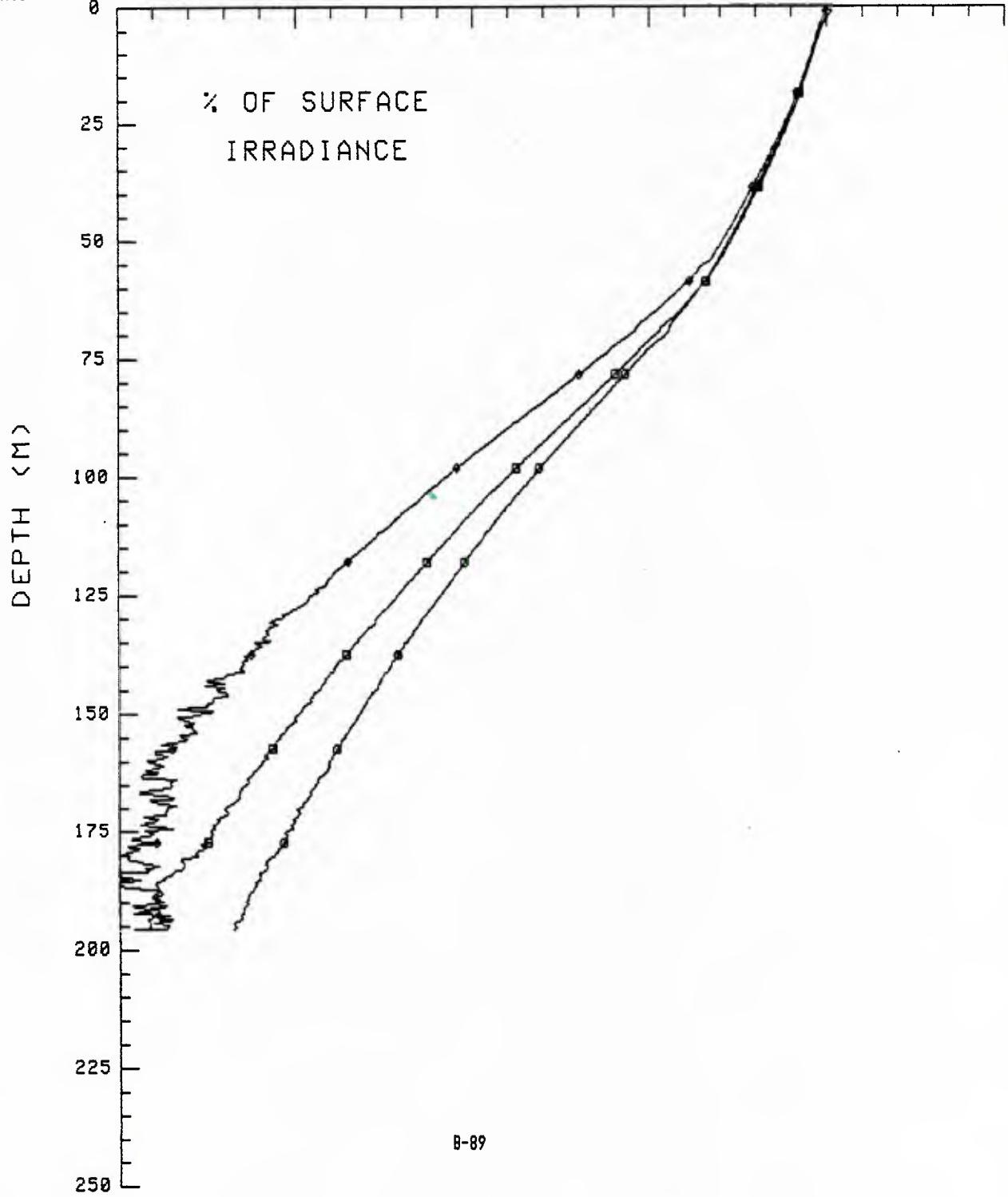


OODEX 3 STA 63 DN CAST 10-28-82 2213Z  
LATITUDE 33.4470N      LONGITUDE 141.1760W



ODEX 3 STA 66 DN CAST 18-29-82 20552  
LATITUDE 33.3343N      LONGITUDE 141.3892W

LOG 465 NM.	0	-4	-3	-2	-1	0	1
LOG 441 NM.	□	-4	-3	-2	-1	0	1
LOG 410 NM.	♦	-4	-3	-2	-1	0	1



ODEX 3 STA 66 DN CAST 10-29-82 2055Z

LATITUDE 33.3343N

LONGITUDE 141.3892W

LOG 540 NM. 0 -4

-3

-2

-1

0

1

LOG 520 NM. □ -4

-3

-2

-1

0

1

LOG 488 NM. ◇ -4

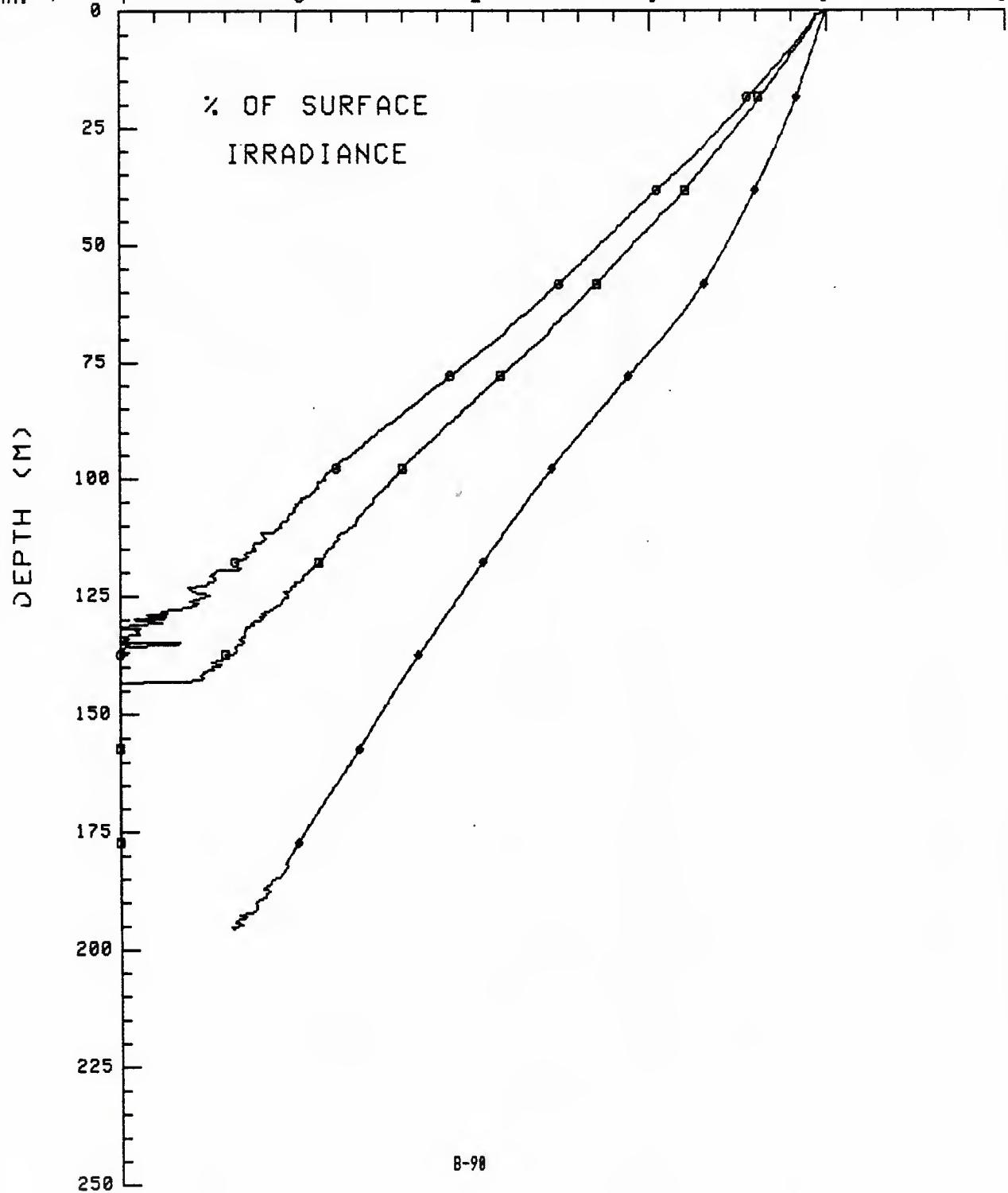
-3

-2

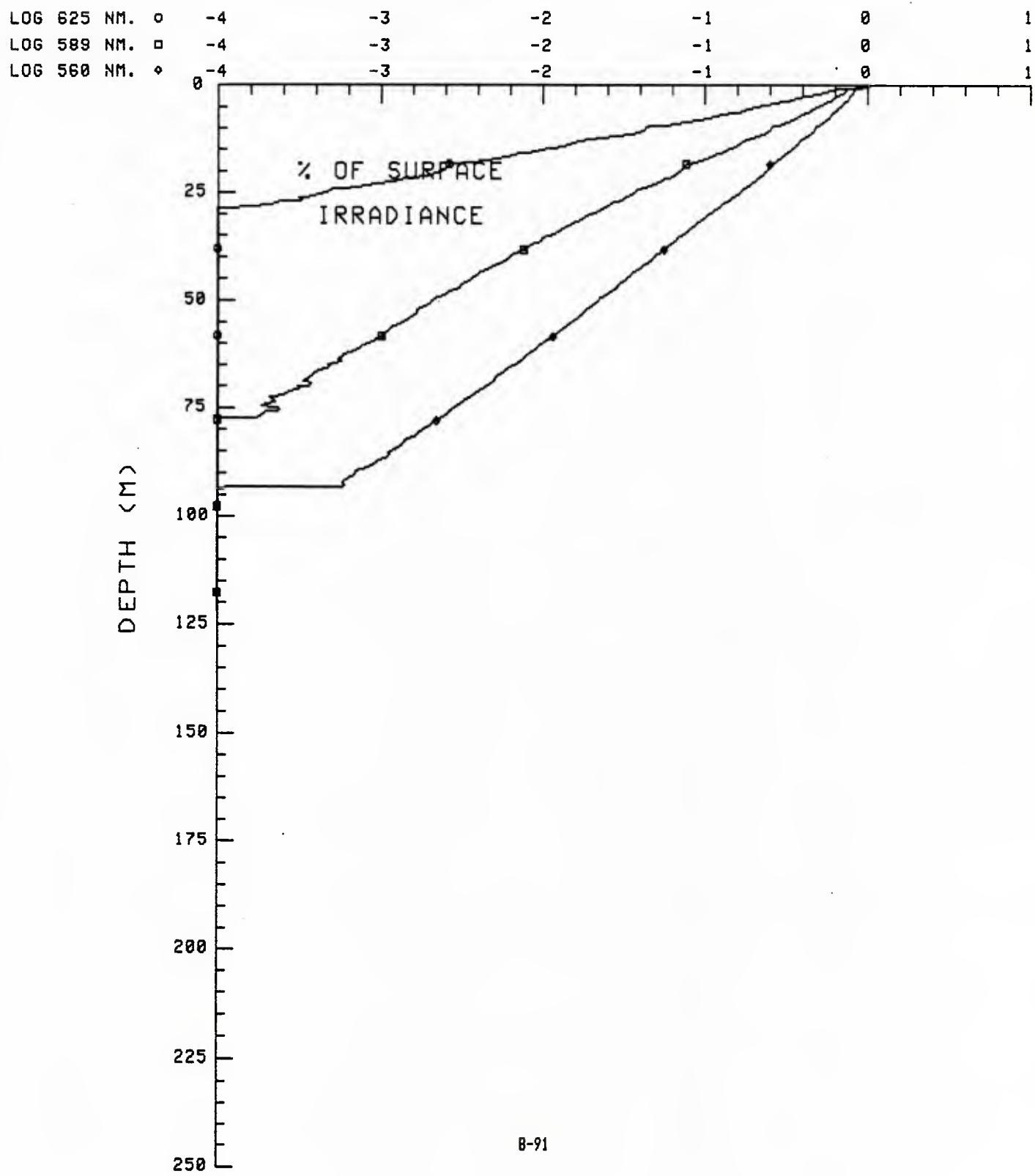
-1

0

1



ODEX 3 STA 66 DN CAST 10-29-82 20552  
LATITUDE 33.3343N      LONGITUDE 141.3892W



ODEX 3 STA 66 DN CAST 18-29-82 2055Z

LATITUDE 33.3343N

LONGITUDE 141.3892W

TEMP. °C  
C 665 #3 °C  
LOG 488 NM. °

7

10

13

16

19

22

.35

.38

.41

.44

.47

.5

-4

-3

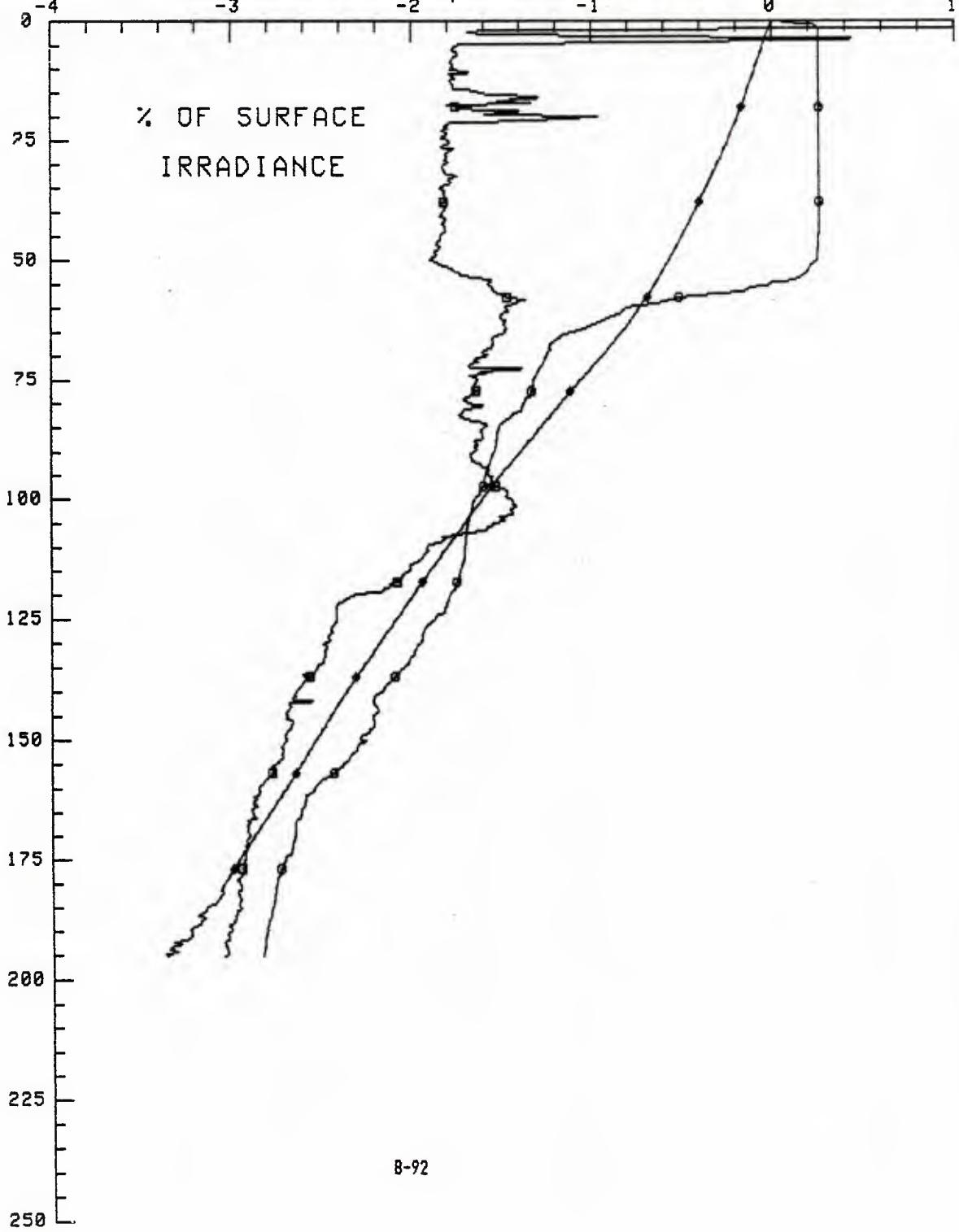
-2

-1

0

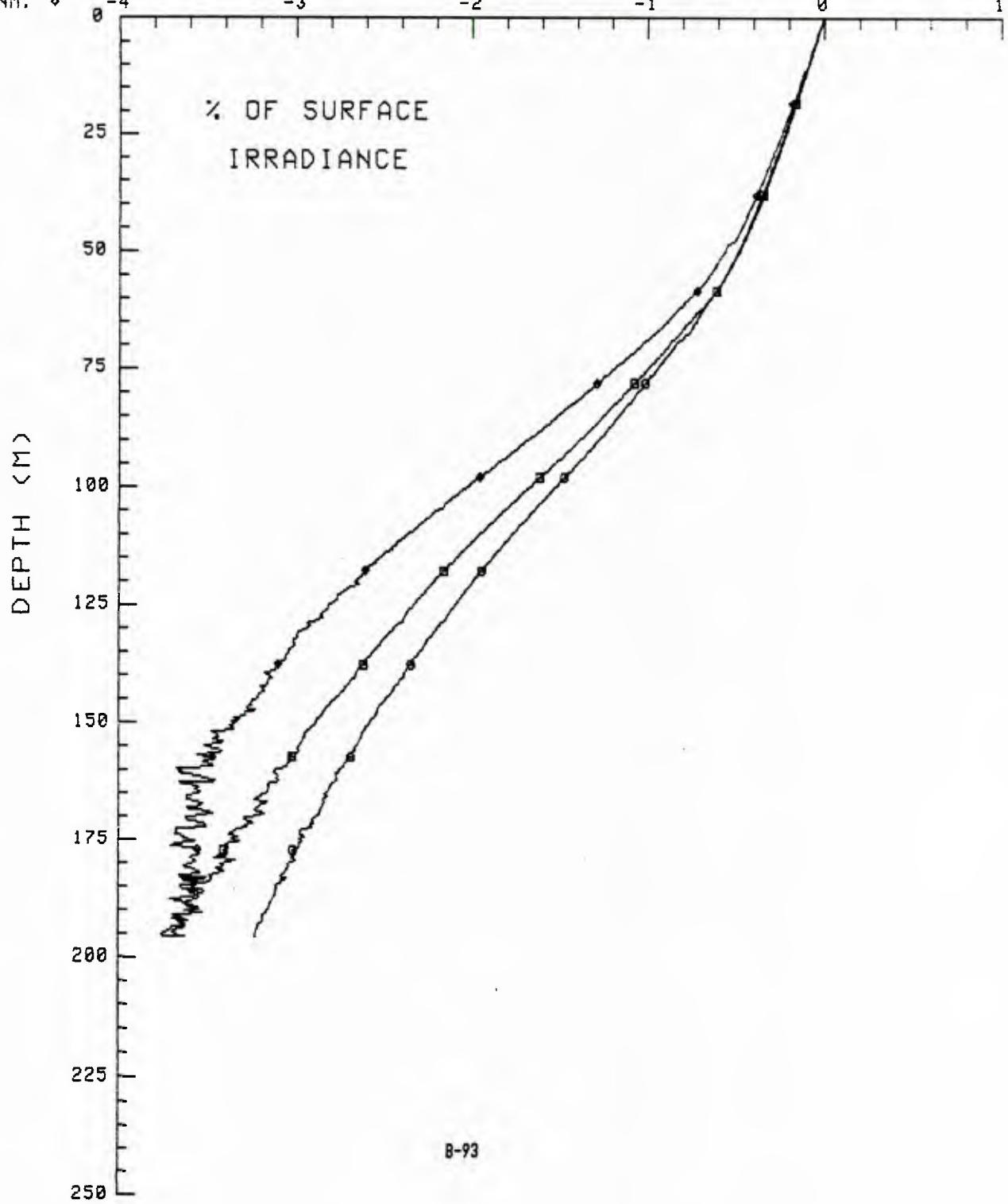
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DEPTH (M)



ODEX 3 STA 66 UP CAST 10-29-82 2119Z  
LATITUDE 33.3343N      LONGITUDE 141.3892W

LOG 465 NM. ◊ -4                  -3                  -2                  -1                  0                  1  
LOG 441 NM. □ -4                  -3                  -2                  -1                  0                  1  
LOG 410 NM. ♦ -4                  -3                  -2                  -1                  0                  1



ODEX 3 STA 66 UP CAST 10-29-82 2119Z

LATITUDE 33.3343N

LONGITUDE 141.3892W

LOG 540 NM. o -4  
LOG 520 NM. □ -4  
LOG 488 NM. ♦ -4

-3

-2

-1

0

1

-3

-2

-1

0

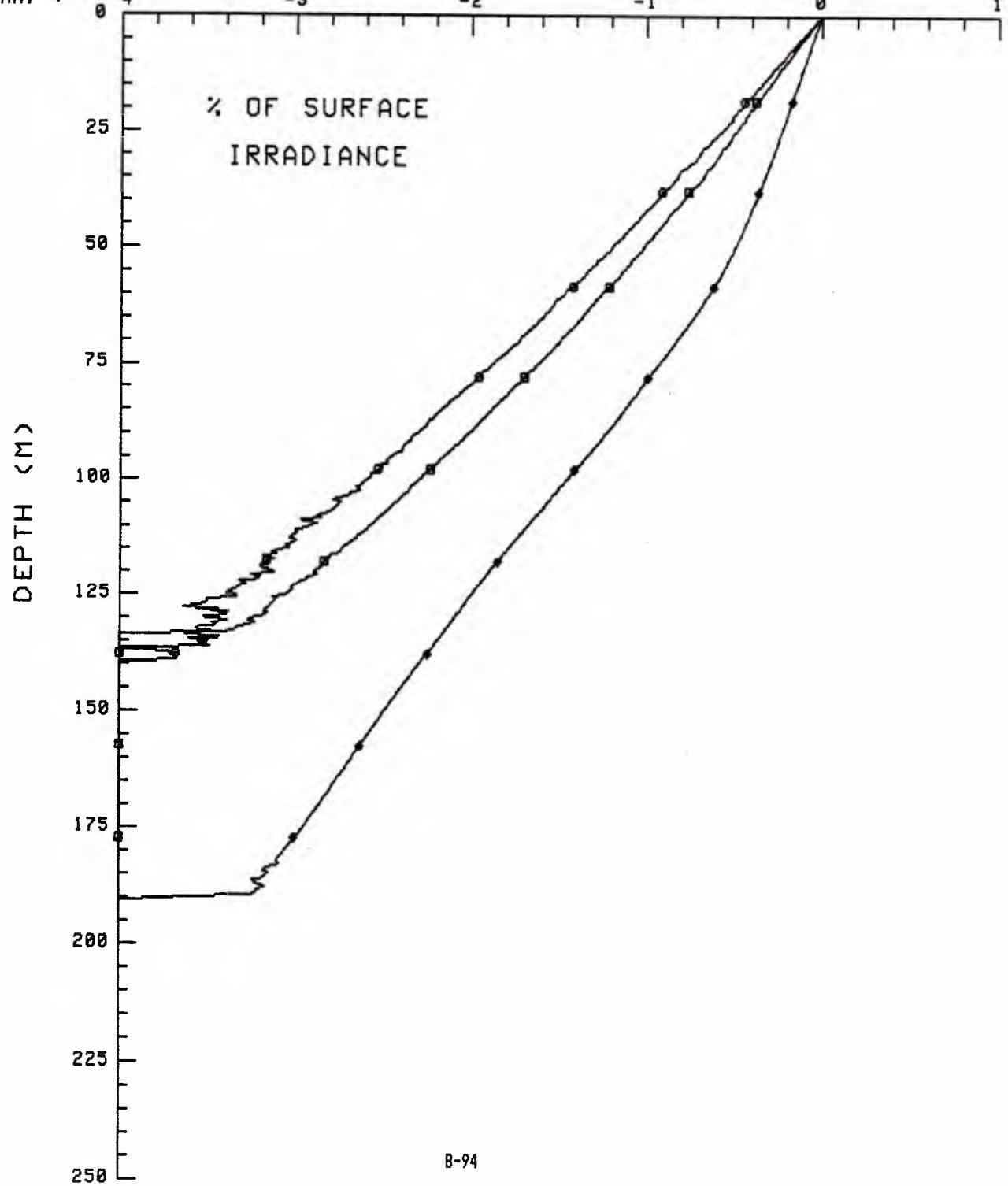
1

-2

-1

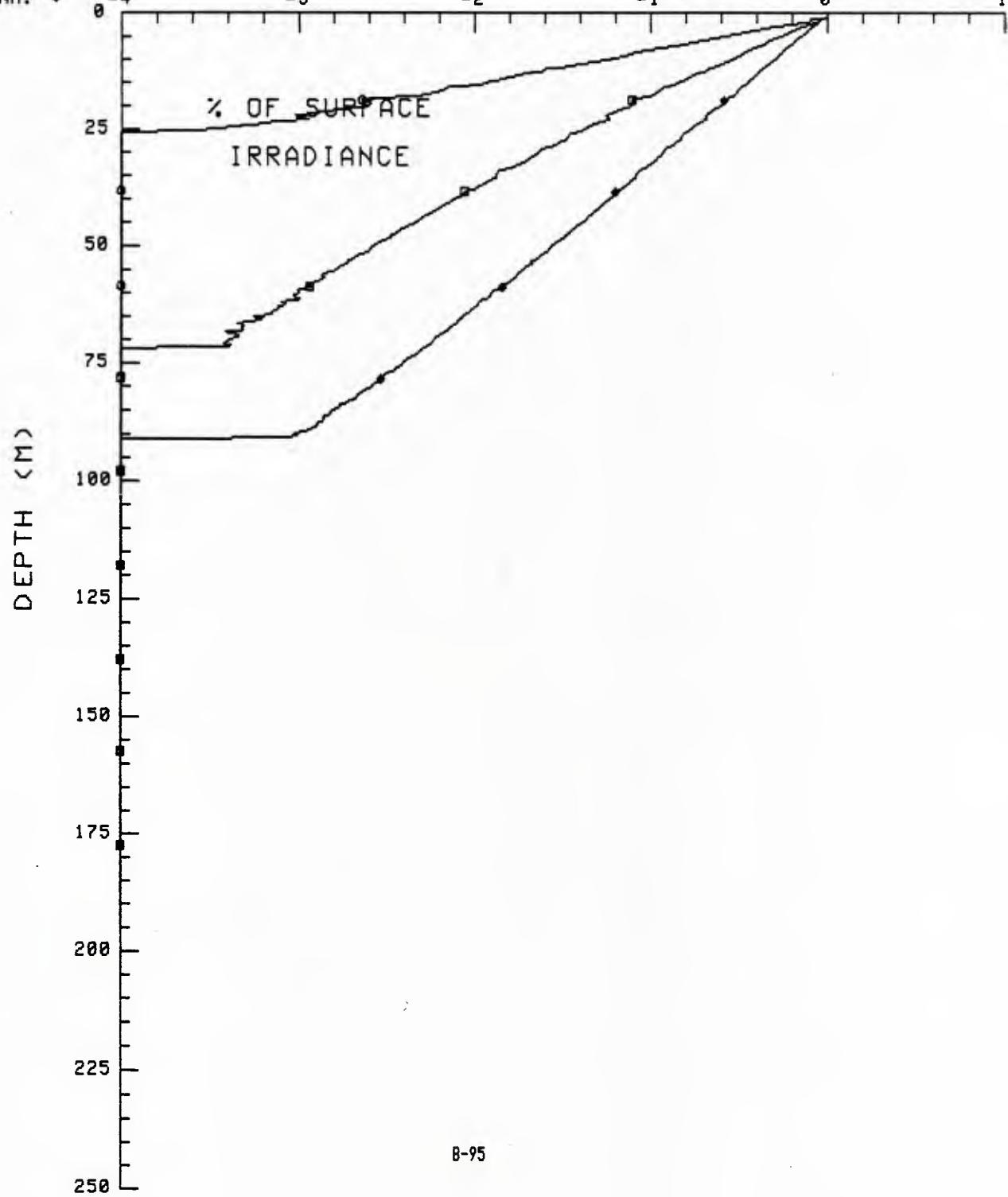
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OODEX 3 STA 66 UP CAST 10-29-82 2119Z  
LATITUDE 33.3343N      LONGITUDE 141.3892W

LOG 625 NM.	0	-4	-3	-2	-1	0	1
LOG 589 NM.	□	-4	-3	-2	-1	0	1
LOG 560 NM.	♦	-4	-3	-2	-1	0	1

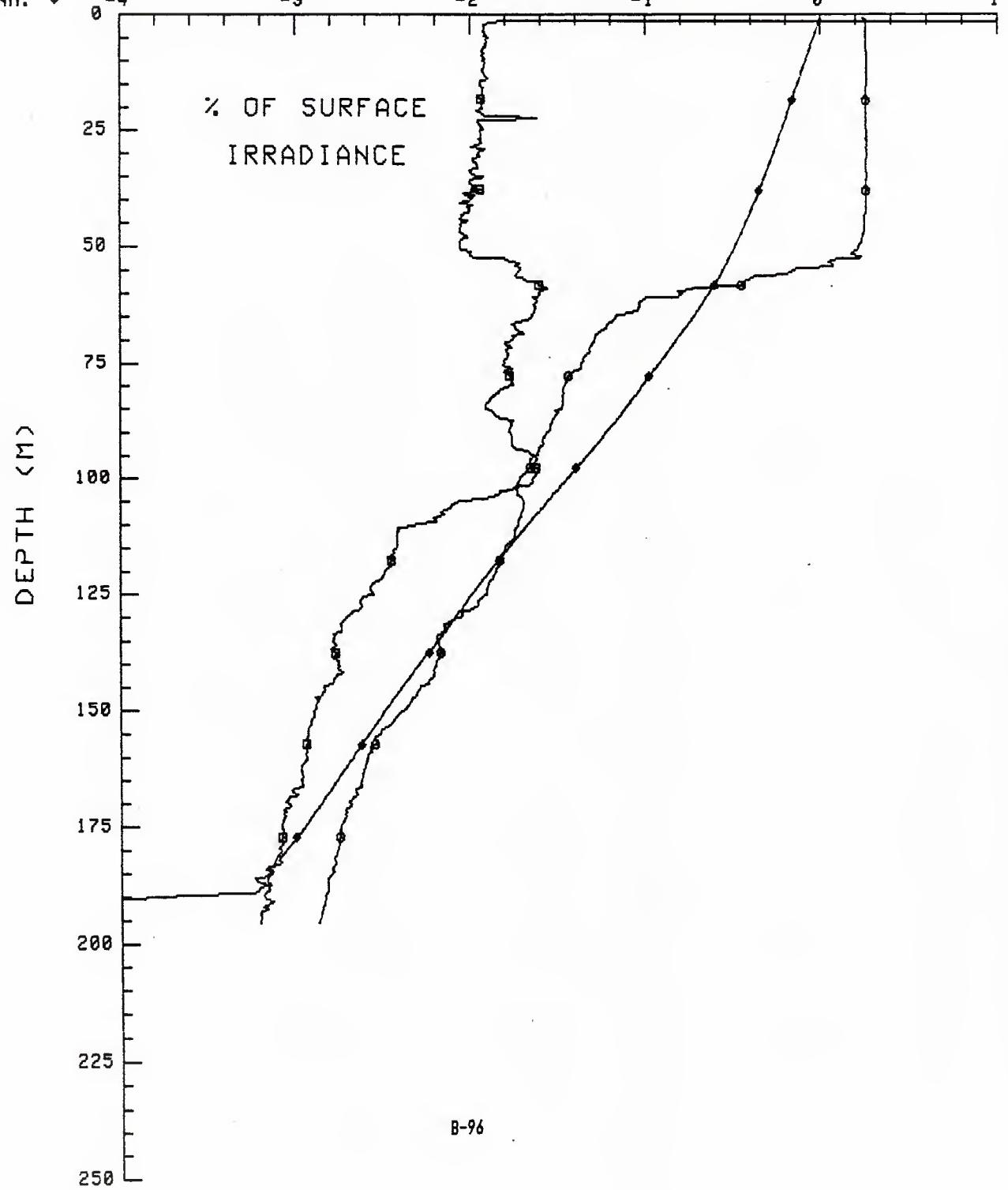


ODEX 3 STA 66 UP CAST 10-29-82 2119Z

LATITUDE 33.3343N

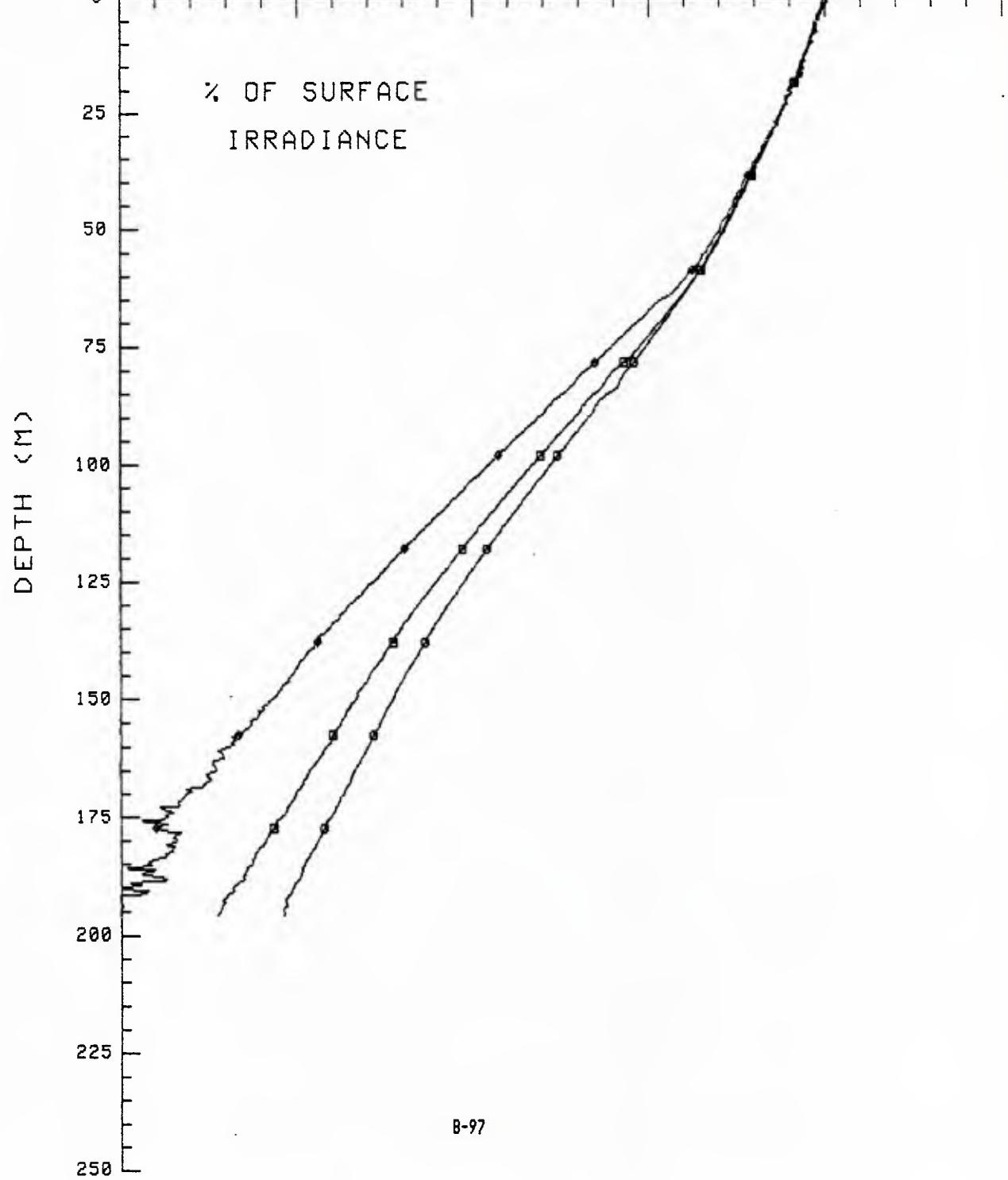
LONGITUDE 141.3892W

TEMP. ° 7 10 13 16 19 22  
C 665 #3 □ .35 .38 .41 .44 .47 .5  
LOG 488 NM. ° -4 -3 -2 -1 0 1



ODEX 3 STA 72 DN CAST 10-31-82 1844Z  
LATITUDE 31.2648N      LONGITUDE 141.3676W

LOG 465 NM.	0	-4	-3	-2	-1	0	1
LOG 441 NM.	□	-4	-3	-2	-1	0	1
LOG 410 NM.	◊	-4	-3	-2	-1	0	1



ODEX 3 STA 72 DN CAST 10-31-82 1844Z

LATITUDE 31.2648N

LONGITUDE 141.3676W

LOG 540 NM. o -4  
LOG 520 NM. □ -4  
LOG 488 NM. ♦ -4

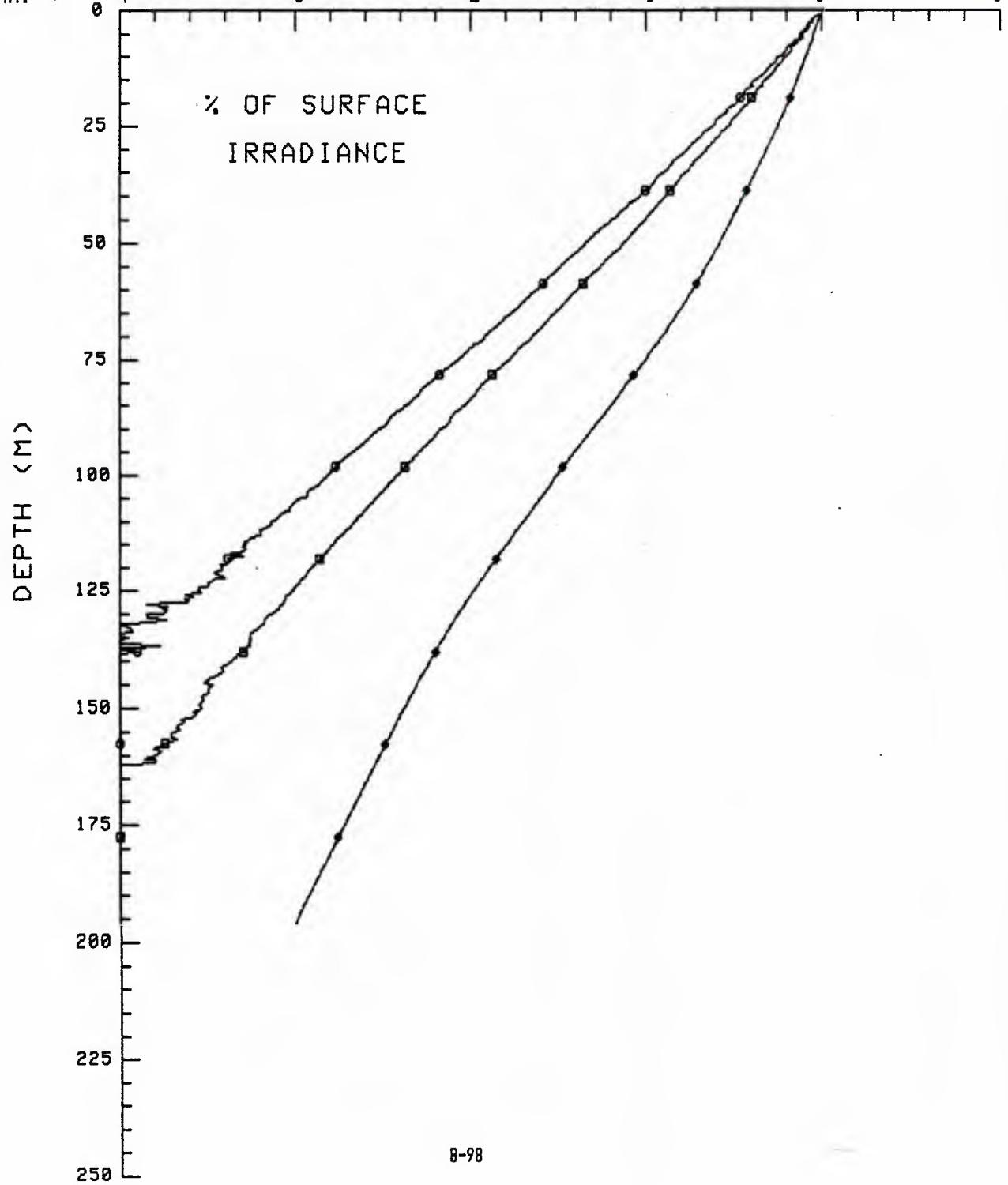
-3  
-3  
-3

-2  
-2  
-2

-1  
-1  
-1

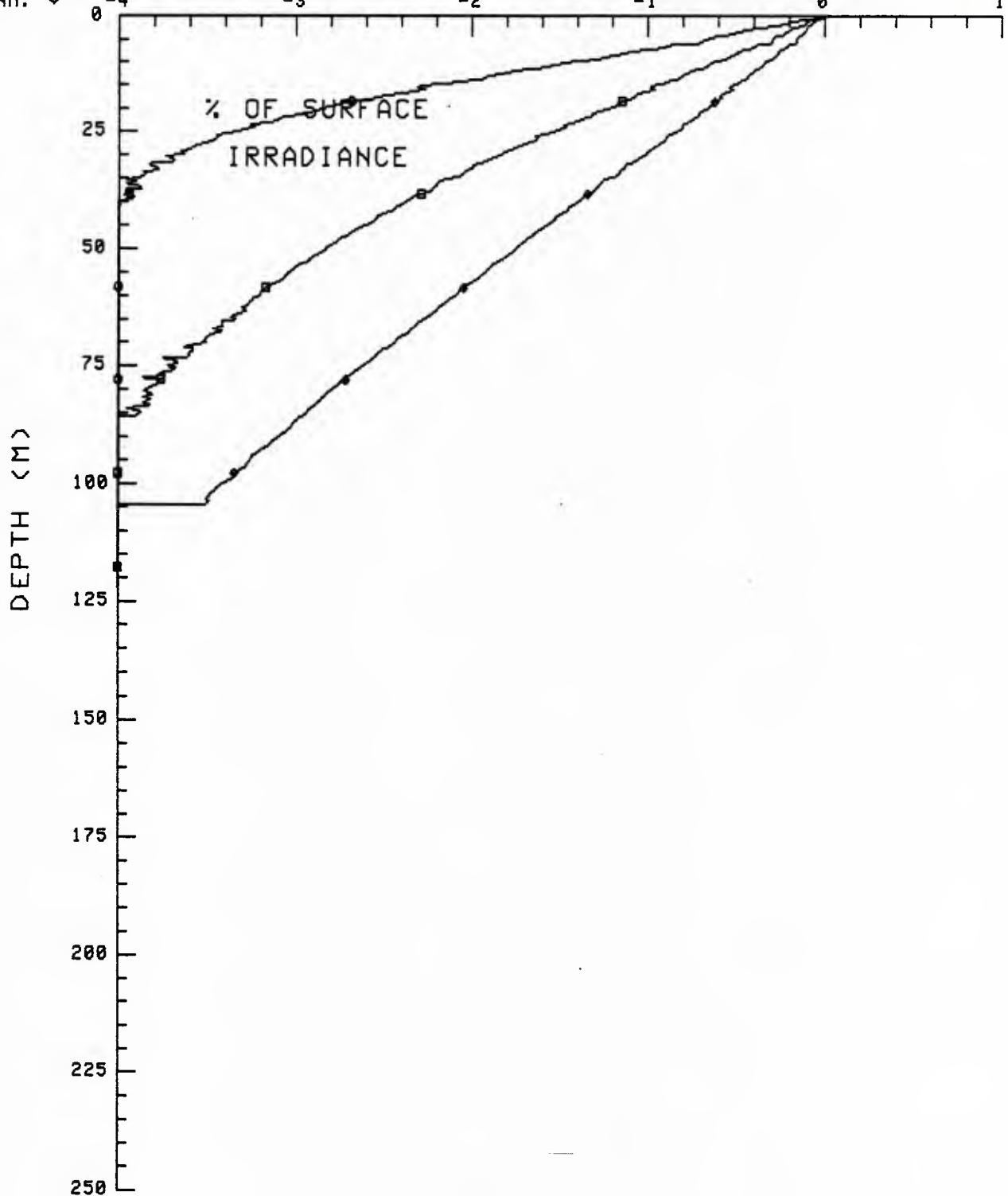
0  
0  
0

1  
1  
1



ODEX 3 STA 72 DN CAST 18-31-82 1844Z  
LATITUDE 31.2648N      LONGITUDE 141.3676W

LOG 625 NM. 0 -4 -3 -2 -1 0 1  
LOG 589 NM. □ -4 -3 -2 -1 0 1  
LOG 560 NM. ♦ -4 -3 -2 -1 0 1  
0



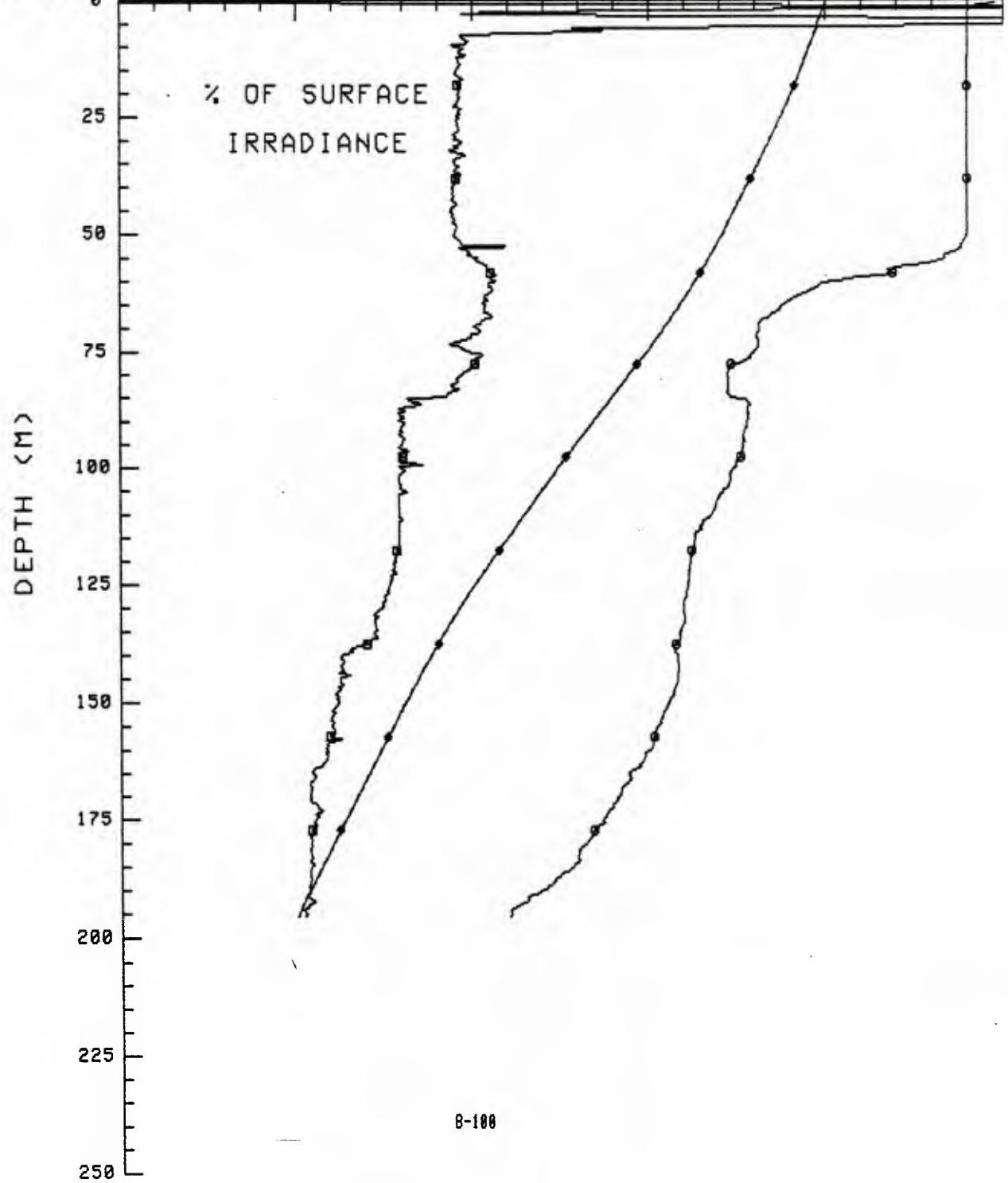
ODEX 3 STA 72 DN CAST 10-31-82 1844Z

LATITUDE 31.2648N

LONGITUDE 141.3676E

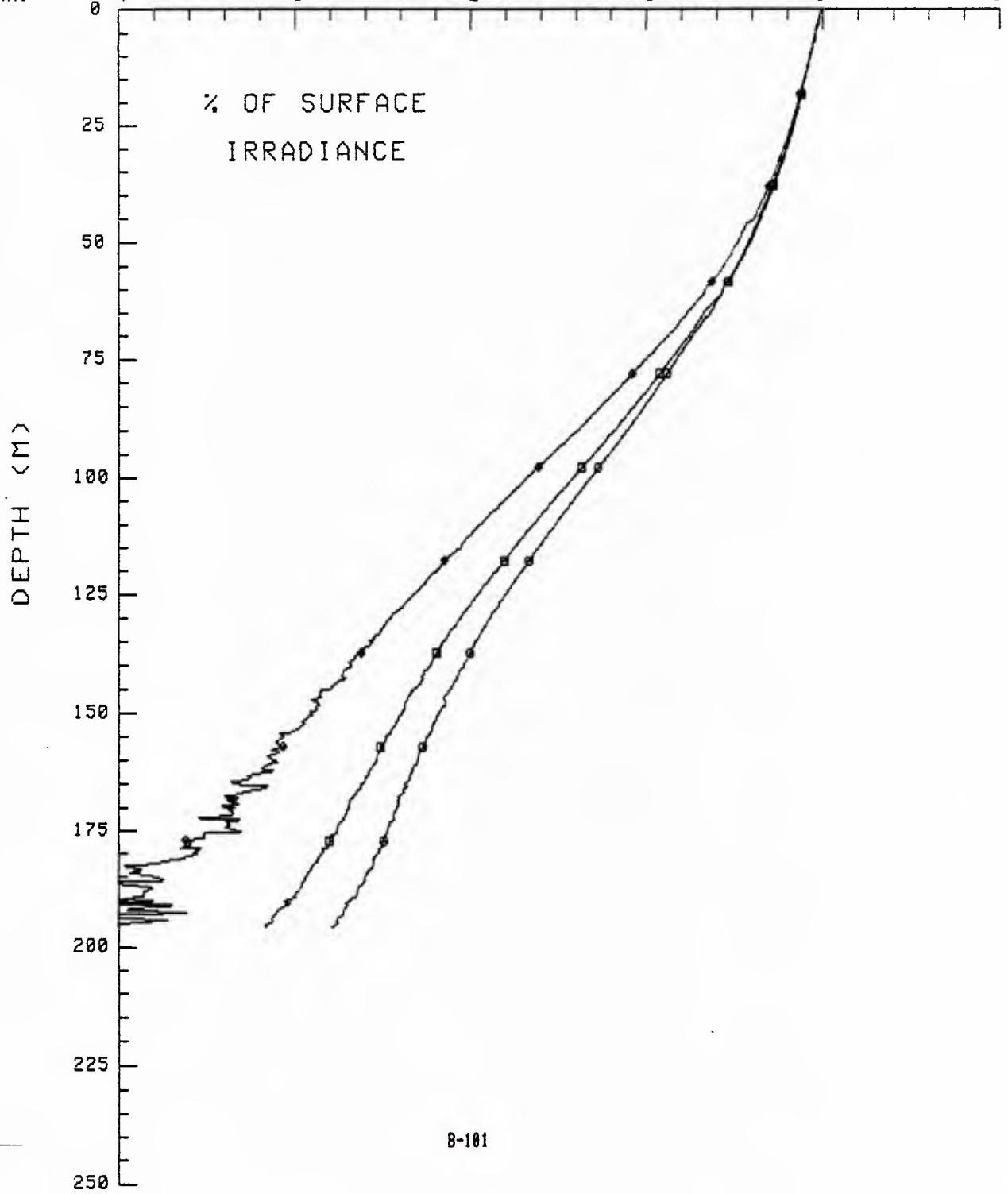
TEMP. °C 665 #3 D LOG 488 NM. °

7	10	13	16	19	22
.35	.38	.41	.44	.47	.5
-4	-3	-2	-1	0	1



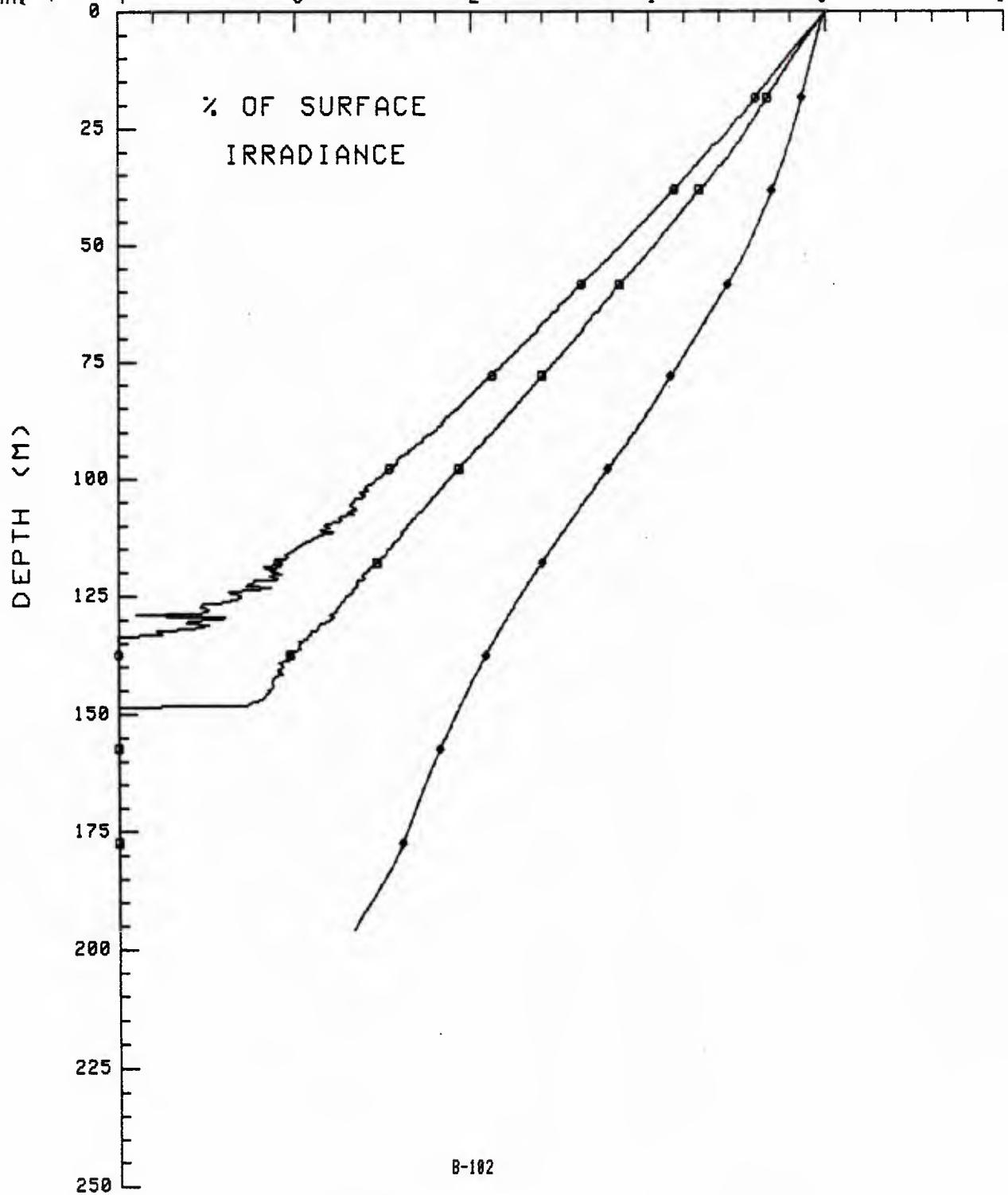
ODEX 3 STA 73 DN CAST 18-31-82 2352Z  
LATITUDE 31.0260N LONGITUDE 141.3490W

LOG 465 NM.	o	-4	-3	-2	-1	0	1
LOG 441 NM.	□	-4	-3	-2	-1	0	1
LOG 410 NM.	◊	-4	-3	-2	-1	0	1



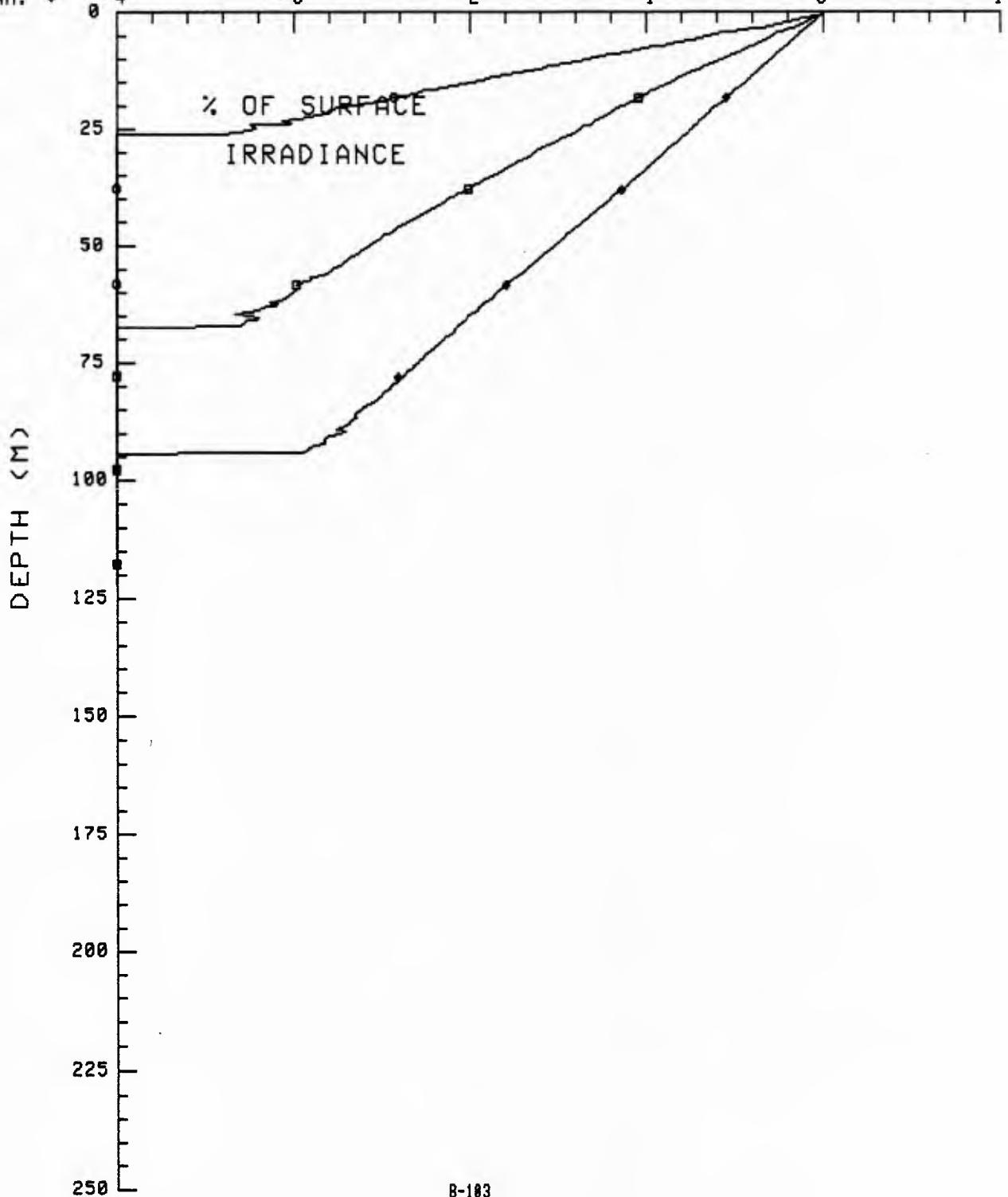
ODEX 3 STA 73 DN CAST 10-31-82 2352Z  
LATITUDE 31.8268N      LONGITUDE 141.3498W

LOG 540 NM. o -4 -3 -2 -1 0 1  
LOG 520 NM. □ -4 -3 -2 -1 0 1  
LOG 488 NM. ♦ -4 -3 -2 -1 0 1



ODEX 3 STA 73 DN CAST 10-31-82 2352Z  
LATITUDE 31.0260N      LONGITUDE 141.3490W

LOG 625 NM. o -4 -3 -2 -1 0 1  
LOG 589 NM. □ -4 -3 -2 -1 0 1  
LOG 560 NM. ♦ -4 -3 -2 -1 0 1  
0

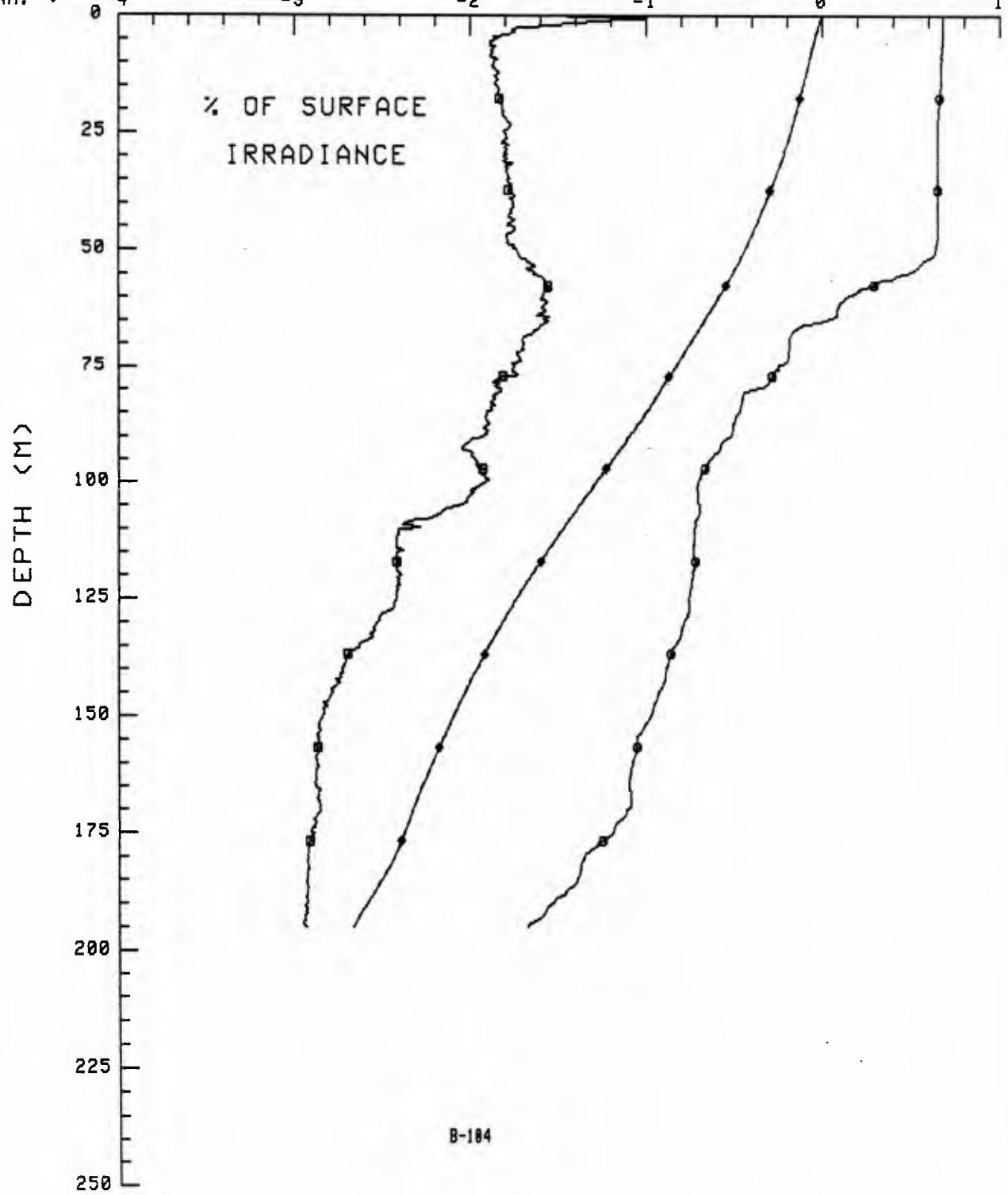


ODEX 3 STA 73 DN CAST 10-31-82 2352Z

LATITUDE 31.8260N

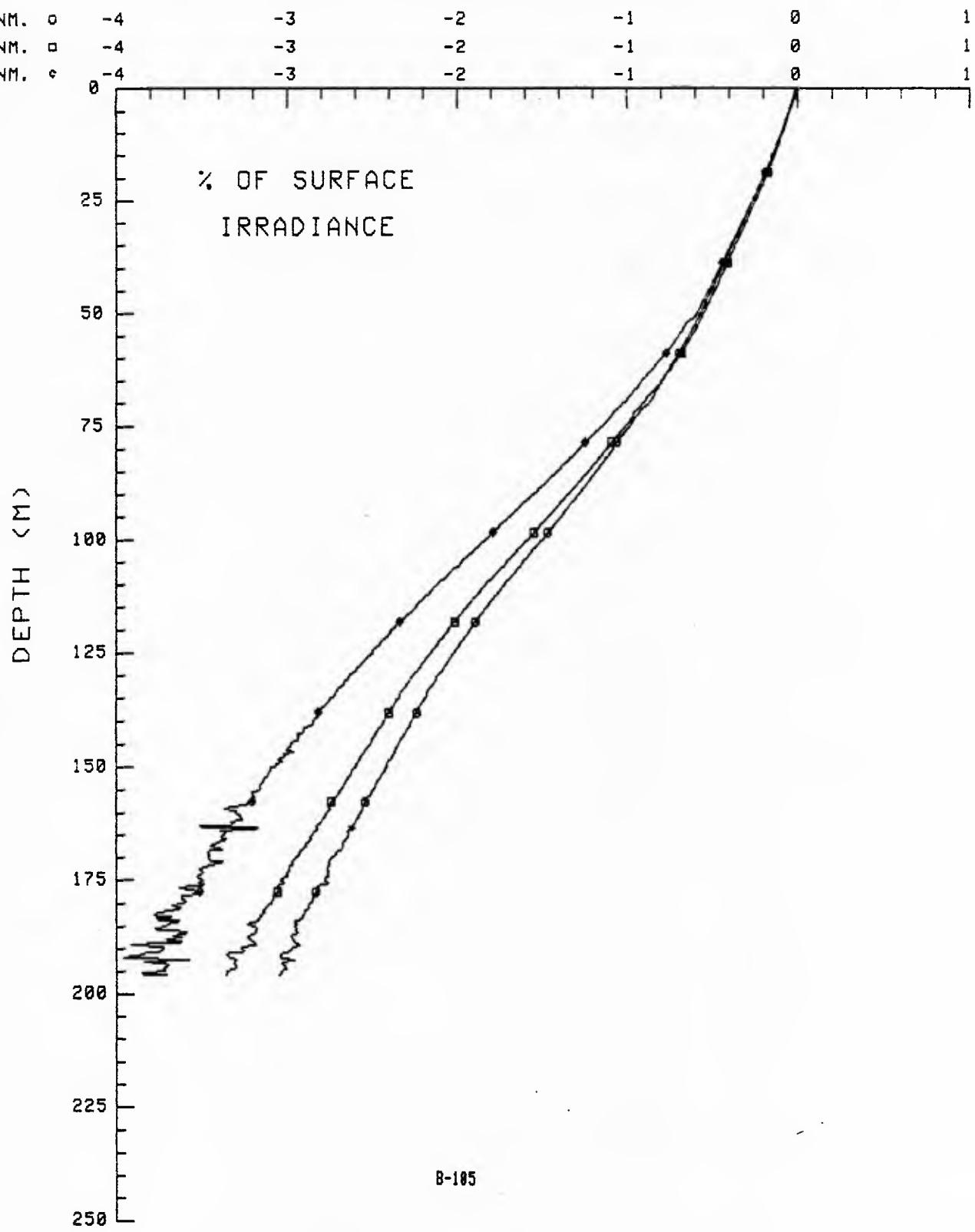
LONGITUDE 141.3490W

TEMP. °	7	10	13	16	19	22
C 665 #3 □	.35	.38	.41	.44	.47	.5
LOG 488 NM. °	-4	-3	-2	-1	0	1

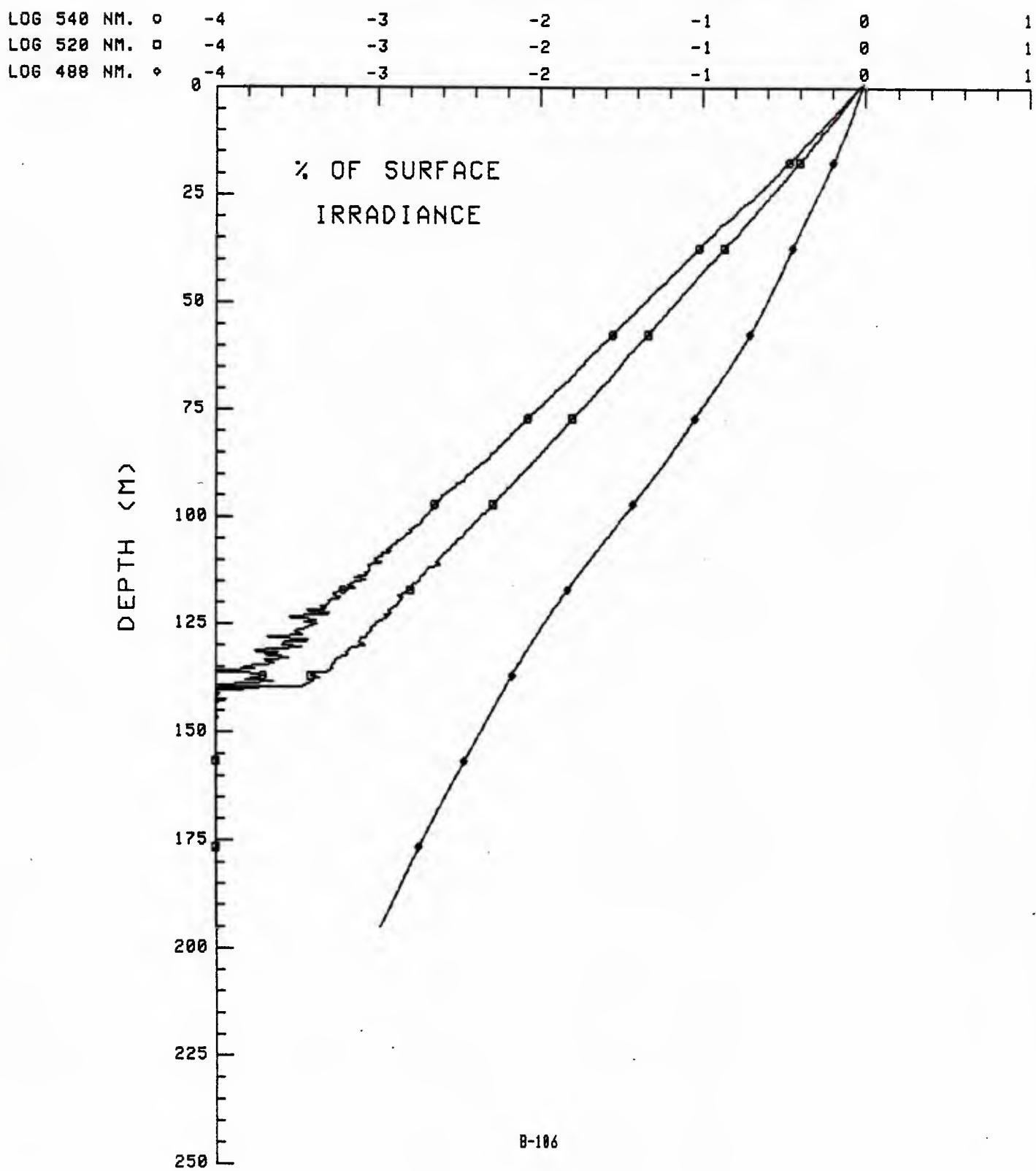


ODEX 3 STA 73 UP CAST 10-31-82 2359Z  
LATITUDE 31.8260N      LONGITUDE 141.3490W

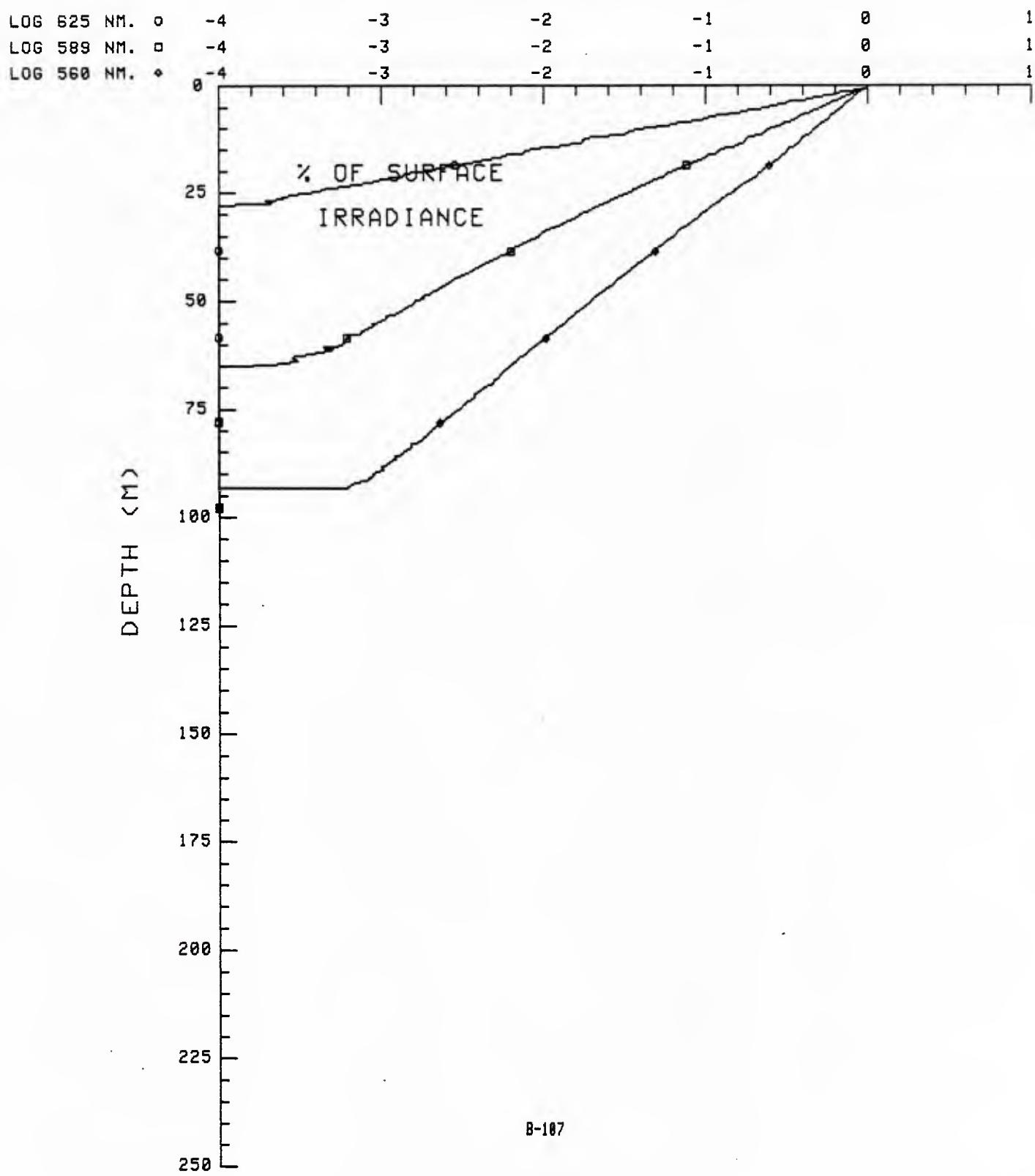
LOG 465 NM. 0 -4  
LOG 441 NM. □ -4  
LOG 410 NM. ♦ -4



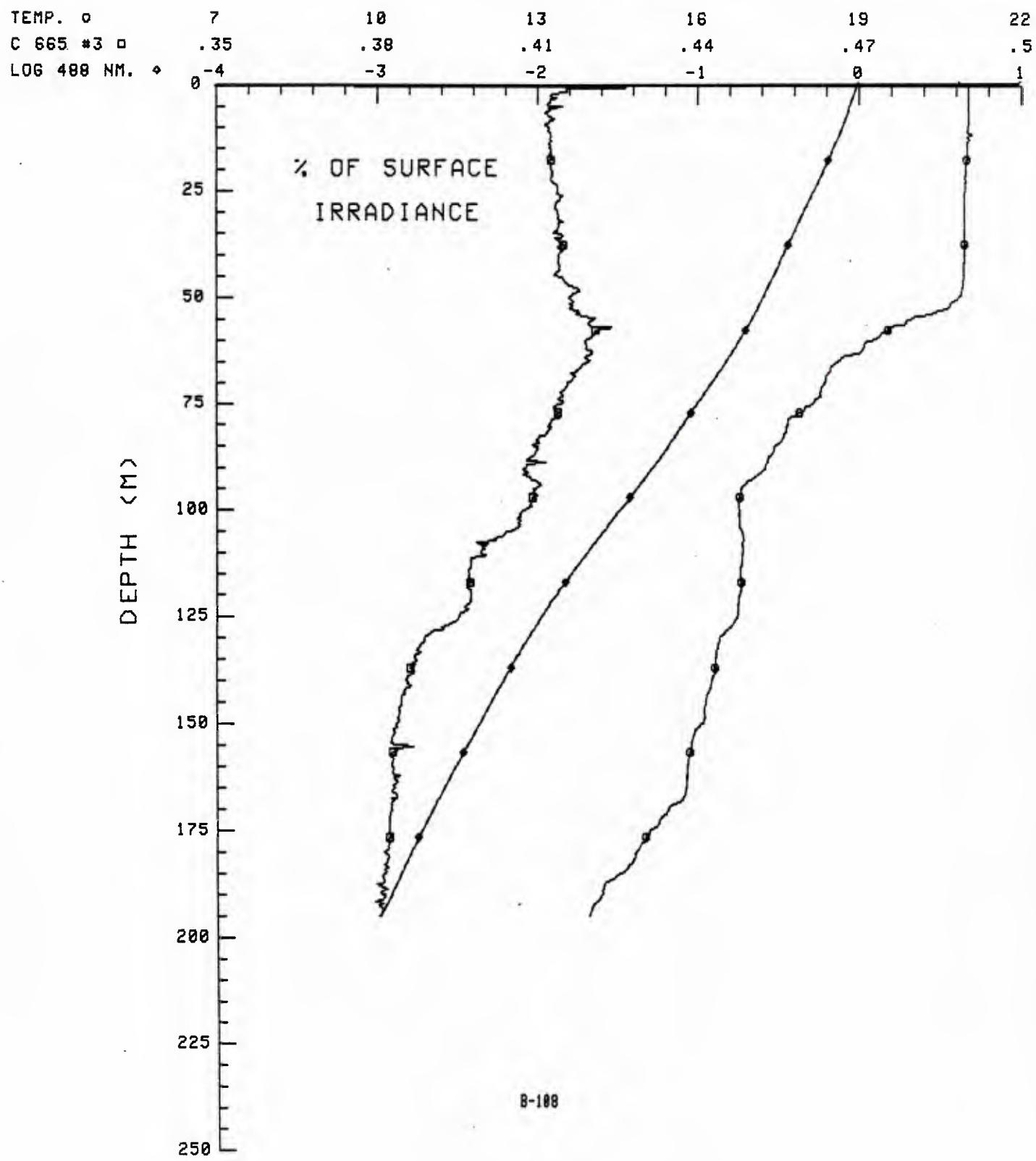
ODEX 3 STA 73 UP CAST 10-31-82 2359Z  
LATITUDE 31.8268N      LONGITUDE 141.3498W



ODEX 3 STA 73 UP CAST 10-31-82 2359Z  
LATITUDE 31.0260N LONGITUDE 141.3490W



ODDEX 3 STA 73 UP CAST 10-31-82 2359Z  
LATITUDE 31.0260N      LONGITUDE 141.3490W

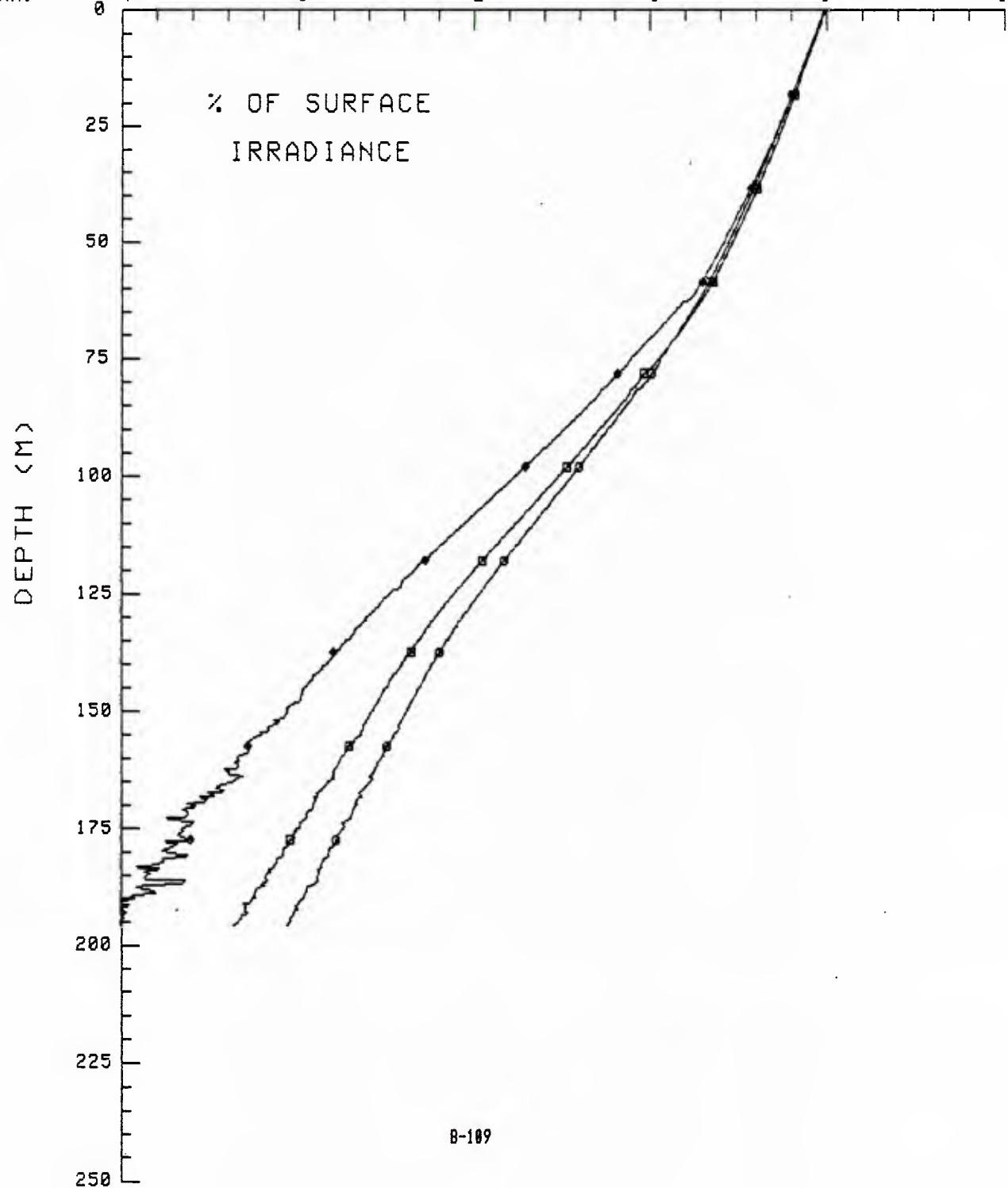


ODEX 3 STA 77B UP CAST 11-1-82 2133Z  
LATITUDE 38.0210N      LONGITUDE 141.2210W

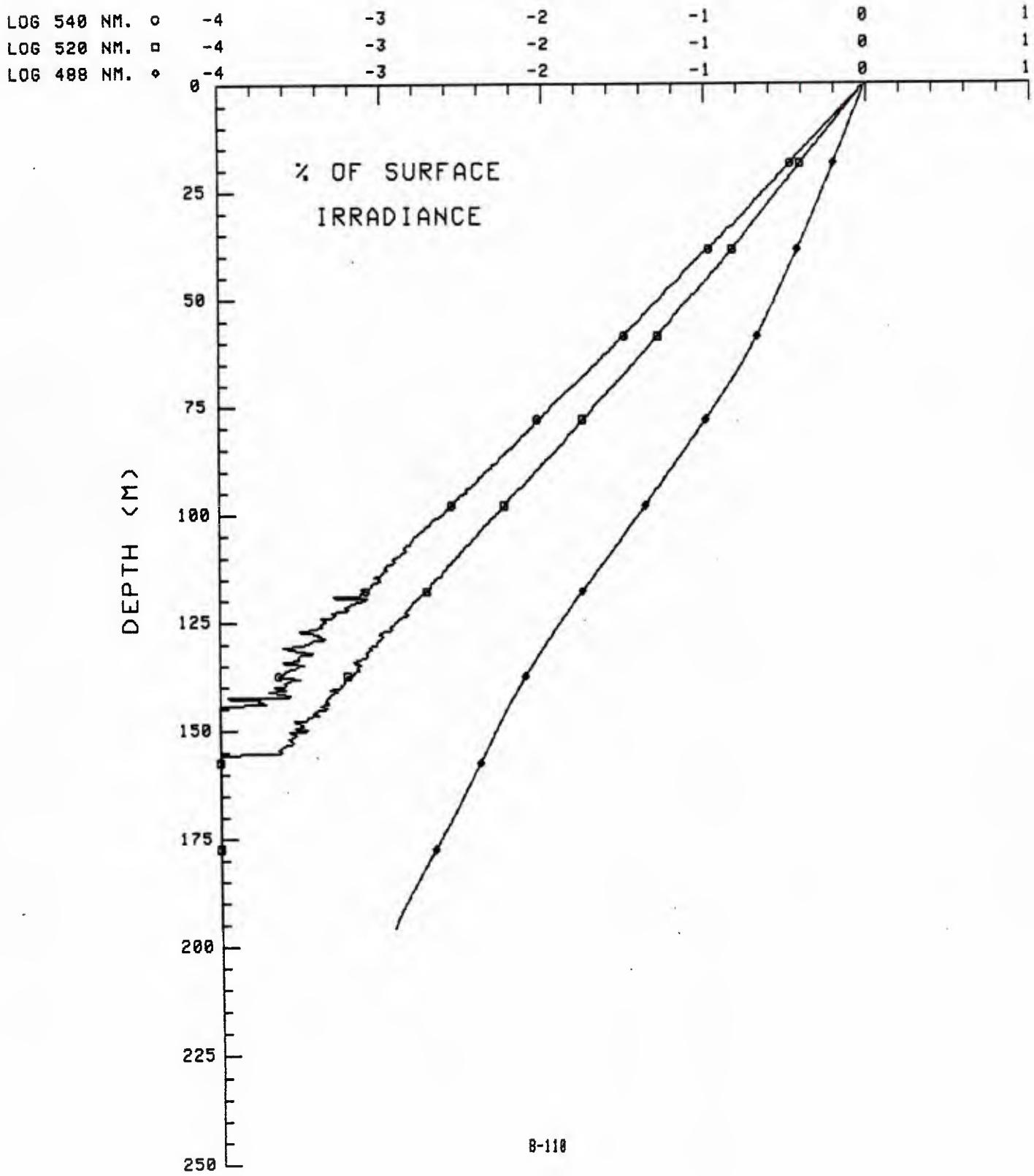
LOG 465 NM. □ -4 -3 -2 -1 0 1

LOG 441 NM. □ -4 -3 -2 -1 0 1

LOG 410 NM. □ -4 -3 -2 -1 0 1

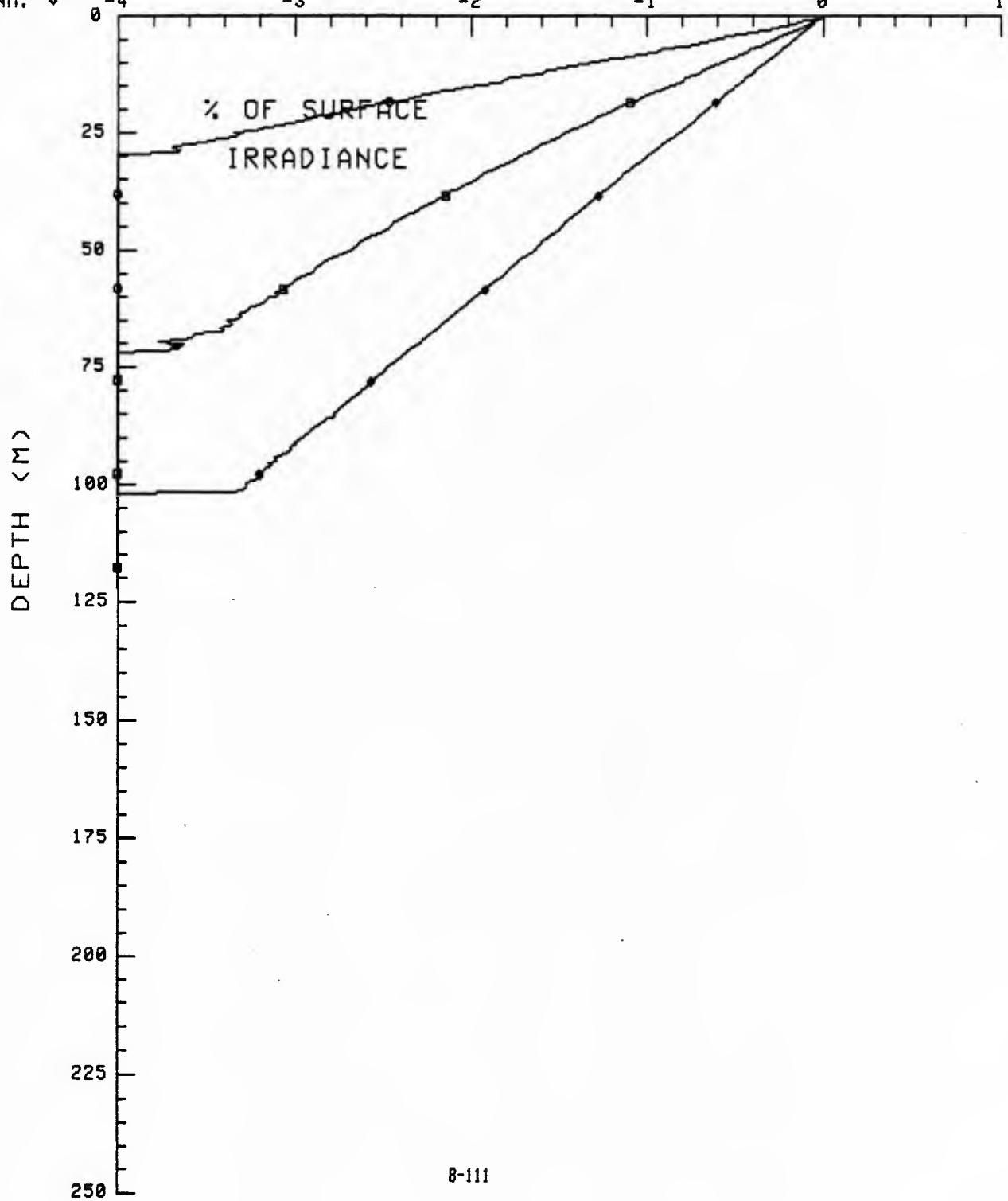


ODEX 3 STA 77B UP CAST 11-1-82 2133Z  
LATITUDE 38.0210N LONGITUDE 141.2210W



ODEX 3 STA 778 UP CAST 11-1-82 2133Z  
LATITUDE 38.0210N      LONGITUDE 141.2210W

LOG 625 NM. 0 -4 -3 -2 -1 0 1  
LOG 589 NM. □ -4 -3 -2 -1 0 1  
LOG 560 NM. ♦ -4 -3 -2 -1 0 1

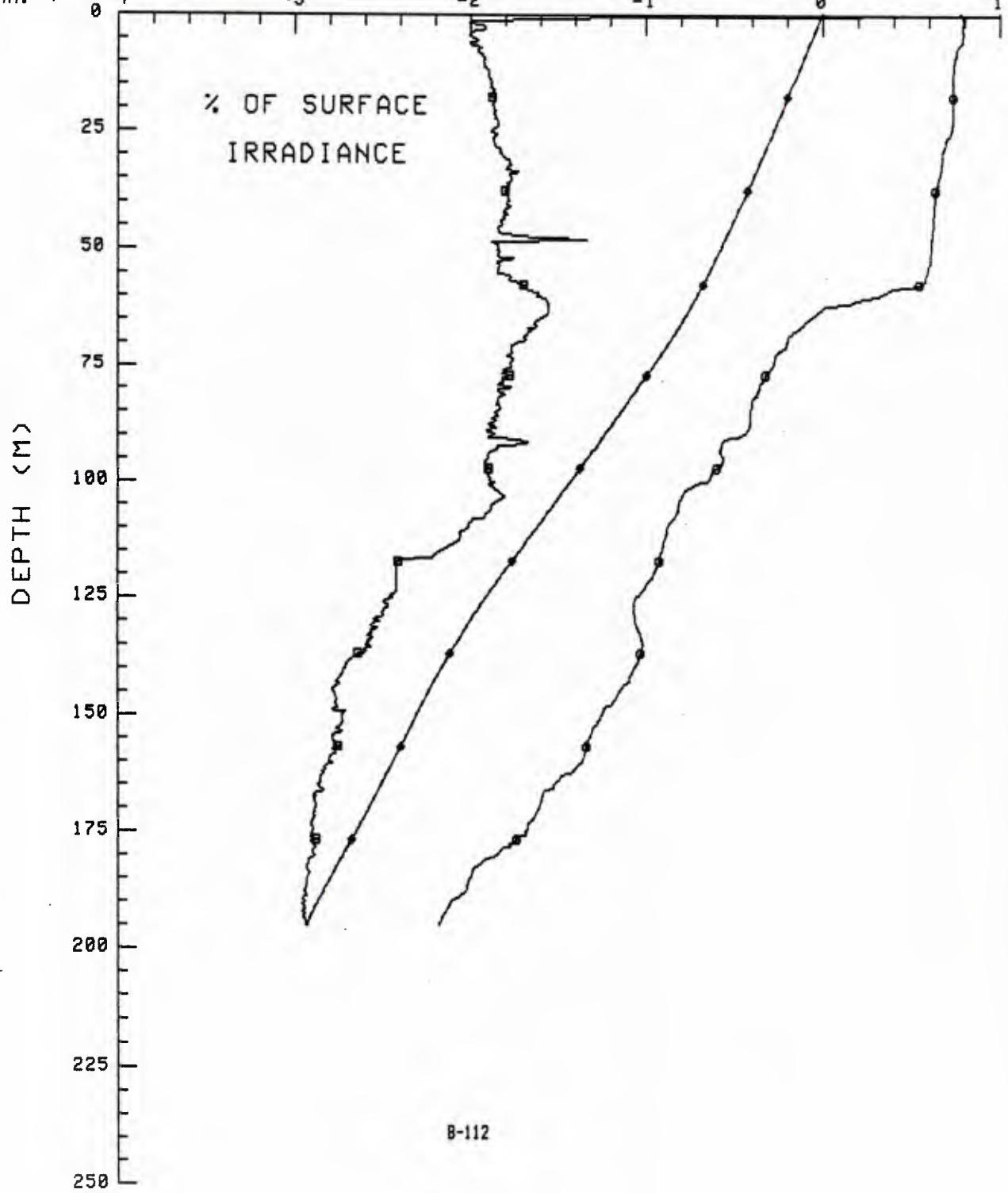


ODEX 3 STA 77B UP CAST 11-1-82 2133Z

LATITUDE 30.8218N

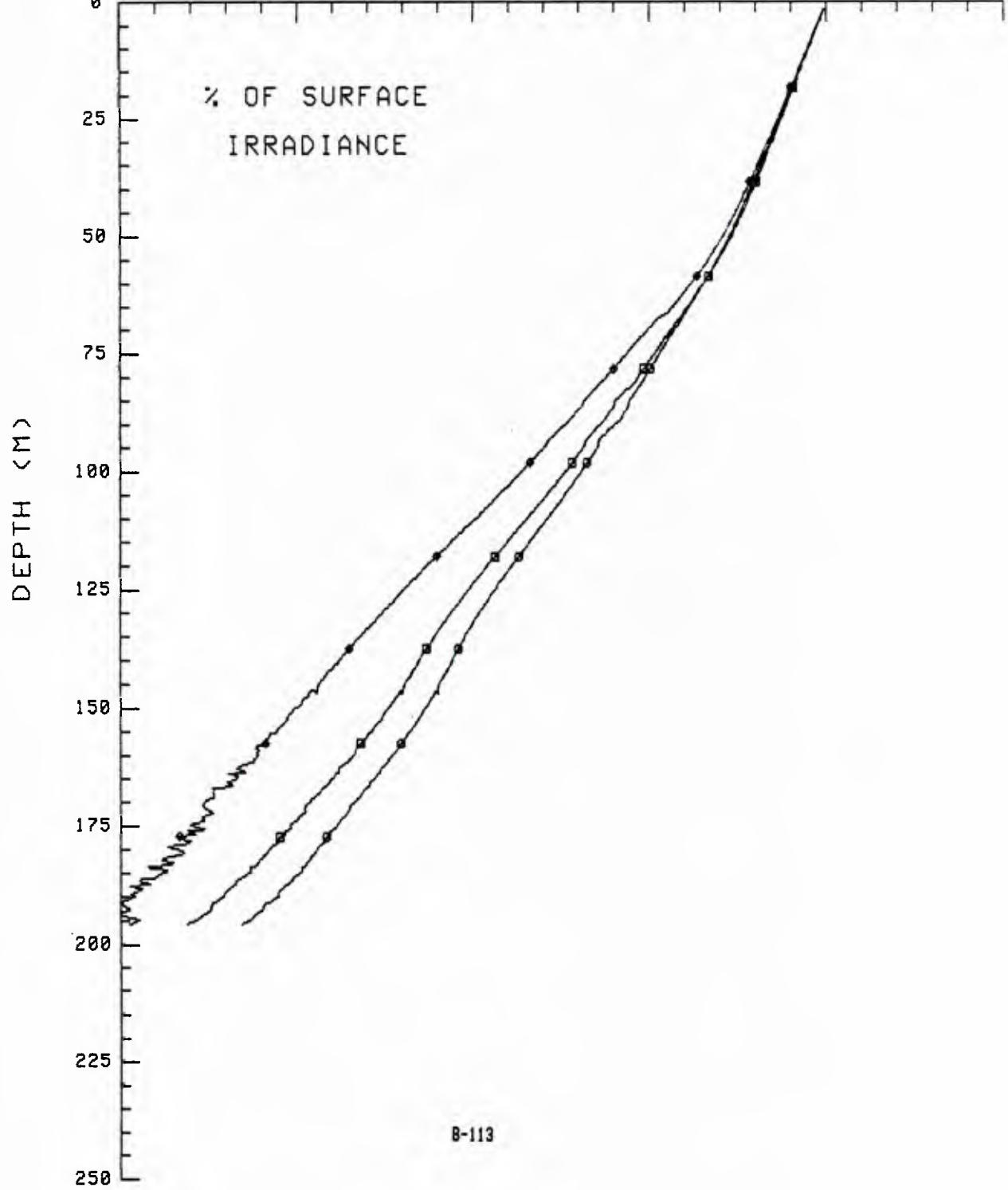
LONGITUDE 141.2218W

TEMP. ° 7 10 13 16 19 22  
C 665 #3 □ .35 .38 .41 .44 .47 .5  
LOG 488 NM. ♦ 0 -4 -3 -2 -1 0 1



ODEX 3 STA 79 UP CAST 11-2-82 1920Z  
LATITUDE 30.5753N      LONGITUDE 148.5419W

LOG 465 NM.	○	-4	-3	-2	-1	0	1
LOG 441 NM.	□	-4	-3	-2	-1	0	1
LOG 410 NM.	◊	-4	-3	-2	-1	0	1



ODEX 3 STA 79 UP CAST 11-2-82 1928Z

LATITUDE 30.5753N

LONGITUDE 148.5419W

LOG 540 NM.  $\circ$  -4  
LOG 520 NM.  $\square$  -4  
LOG 488 NM.  $\diamond$  -4

-3

-2

-1

0

1

-3

-2

-1

0

1

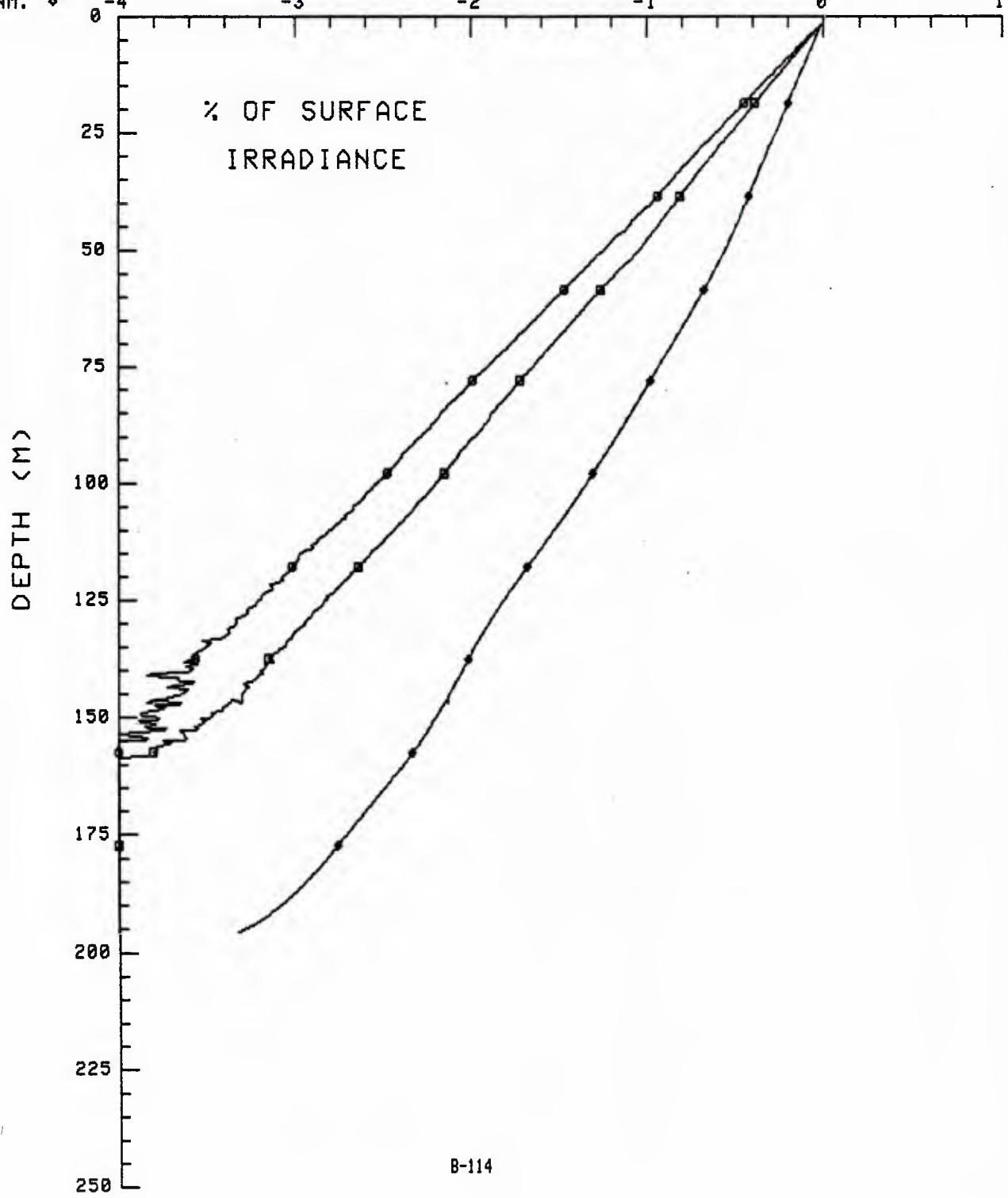
-3

-2

-1

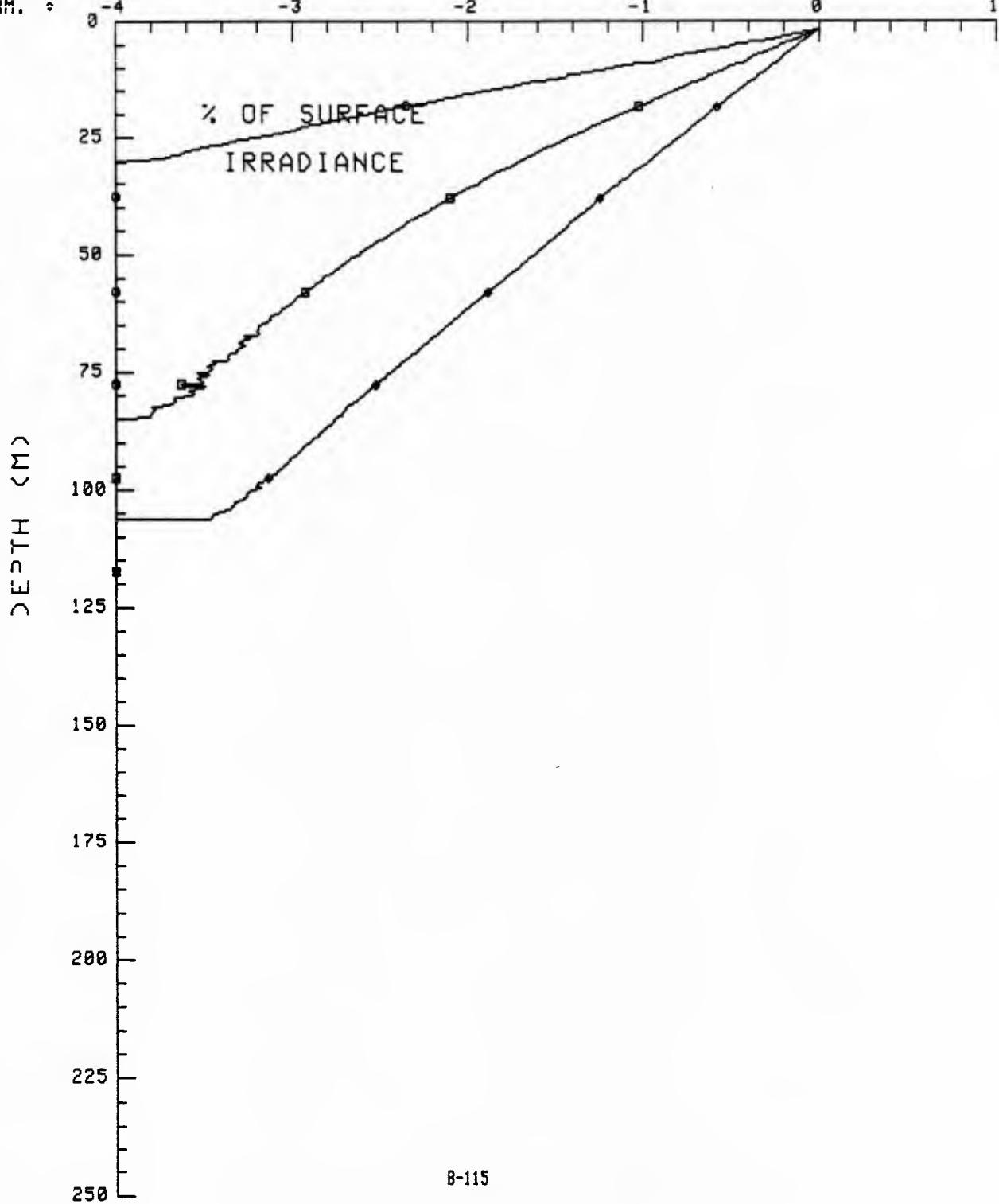
0

1



ODEX 3 STA 79 UP CAST 11-2-82 1920Z  
LATITUDE 30.5753N      LONGITUDE 140.5419W

LOG 525 NM. 0 -4 -3 -2 -1 0 1  
LOG 589 NM. □ -4 -3 -2 -1 0 1  
LOG 560 NM. ♦ -4 -3 -2 -1 0 1

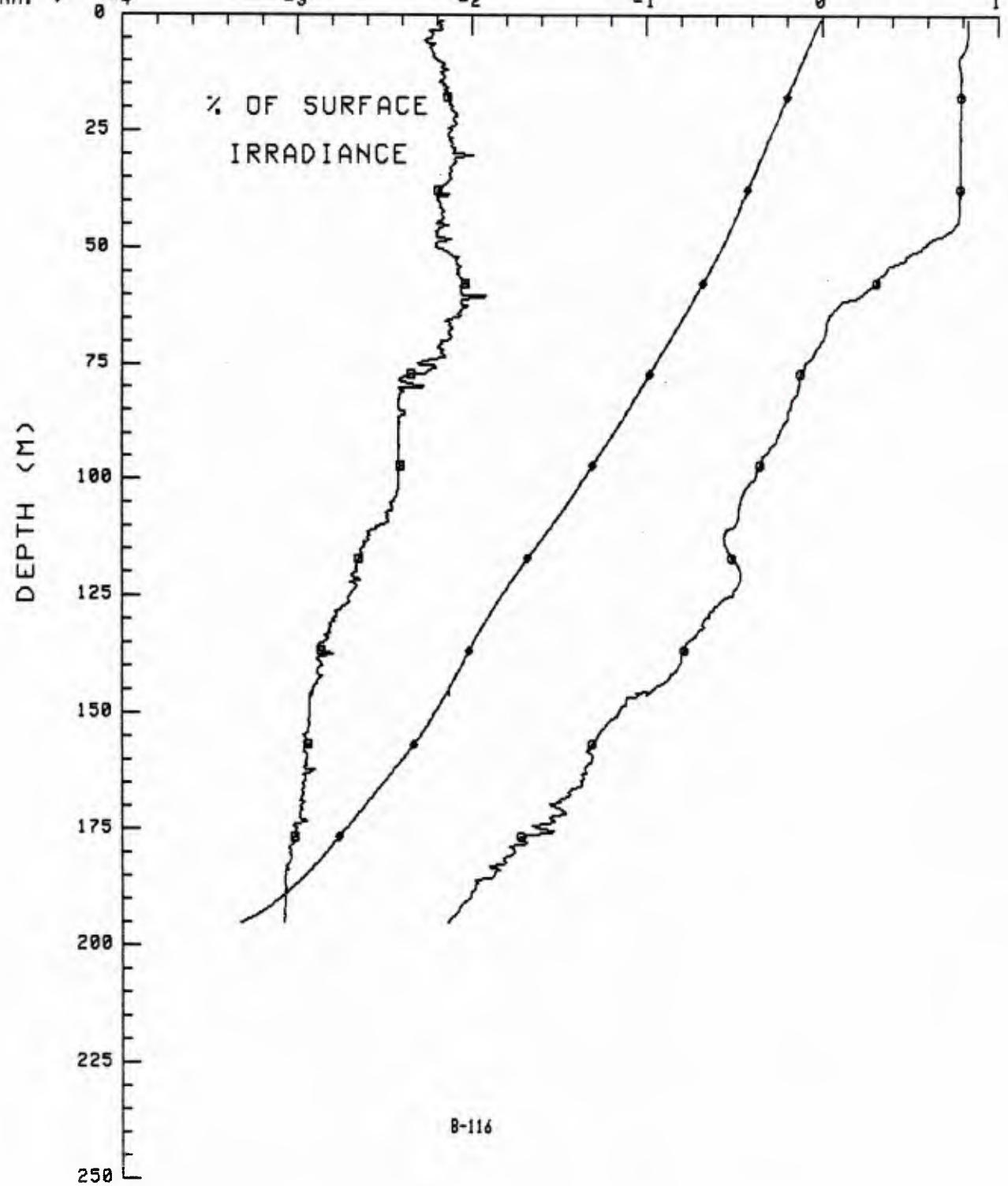


ODEX 3 STA 79 UP CAST 11-2-82 1920Z

LATITUDE 38.5753N

LONGITUDE 140.5419W

TEMP. °C 7 10 13 16 19 22  
C 665 #3 0 .35 .38 .41 .44 .47 .5  
LOG 488 NM. 0 -4 -3 -2 -1 0 1



OODEX 3 STA 84 DN CAST 11-3-82 2010Z  
LATITUDE 32.5946N      LONGITUDE 140.4784W

LOG 465 NM. ○ -4

-3

-2

-1

0

1

LOG 441 NM. □ -4

-3

-2

-1

0

1

LOG 410 NM. ♦ -4

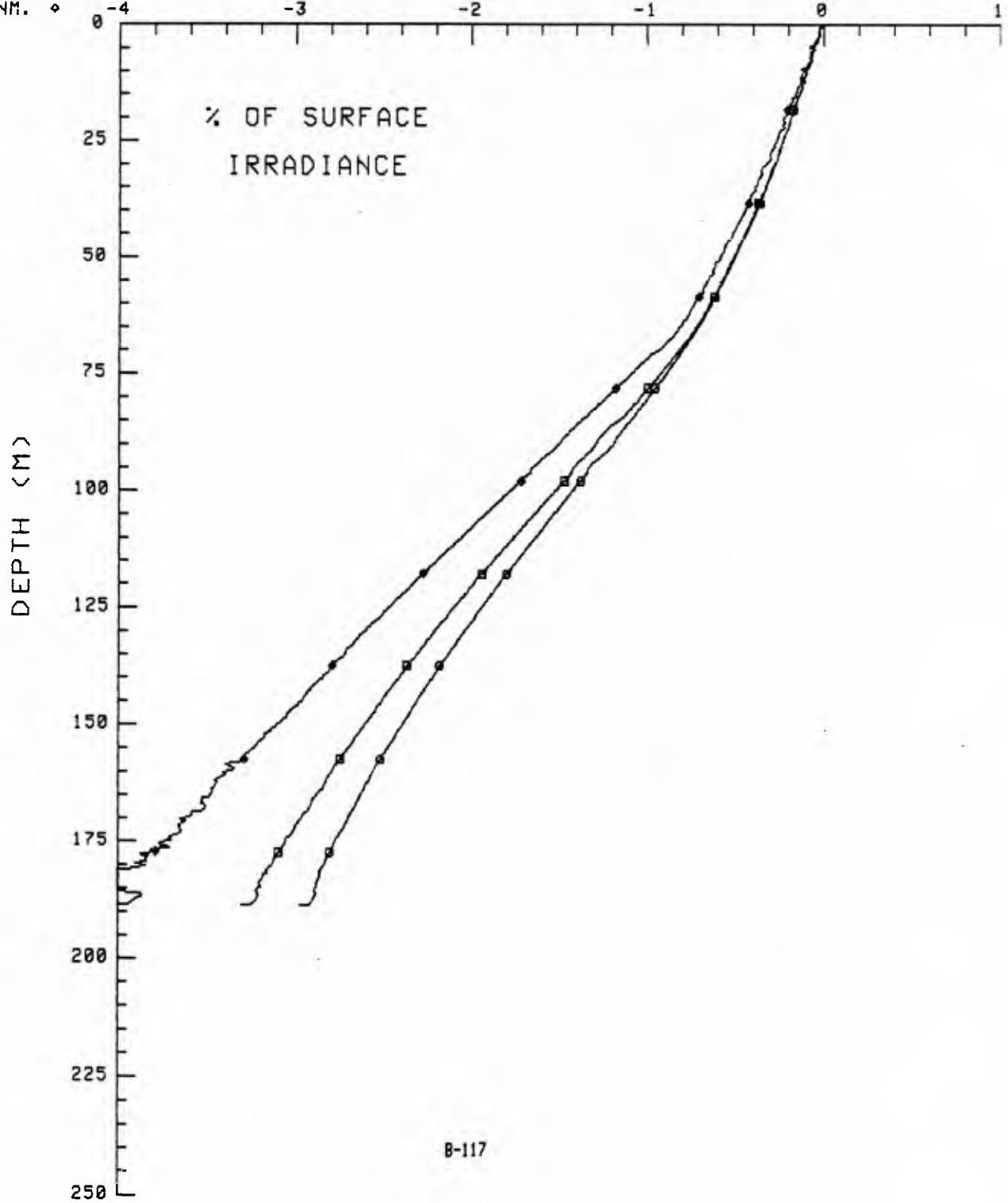
-3

-2

-1

0

1



ODEX 3 STA 84 DN CAST 11-3-82 2010Z

LATITUDE 32.5946N

LONGITUDE 148.4784W

LOG 540 NM. 0 -4

-3

-2

-1

0

1

LOG 520 NM. □ -4

-3

-2

-1

0

1

LOG 488 NM. • -4

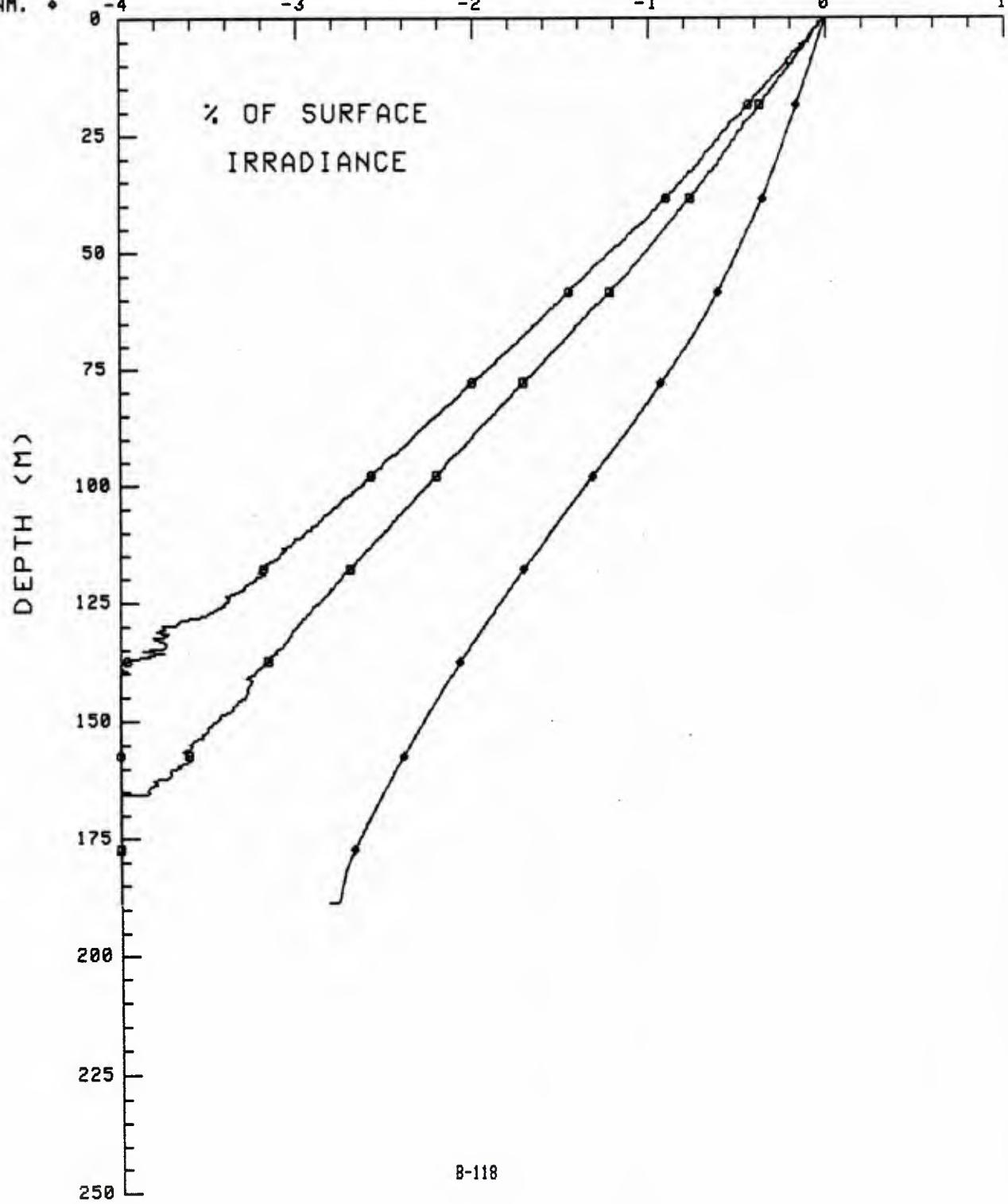
-3

-2

-1

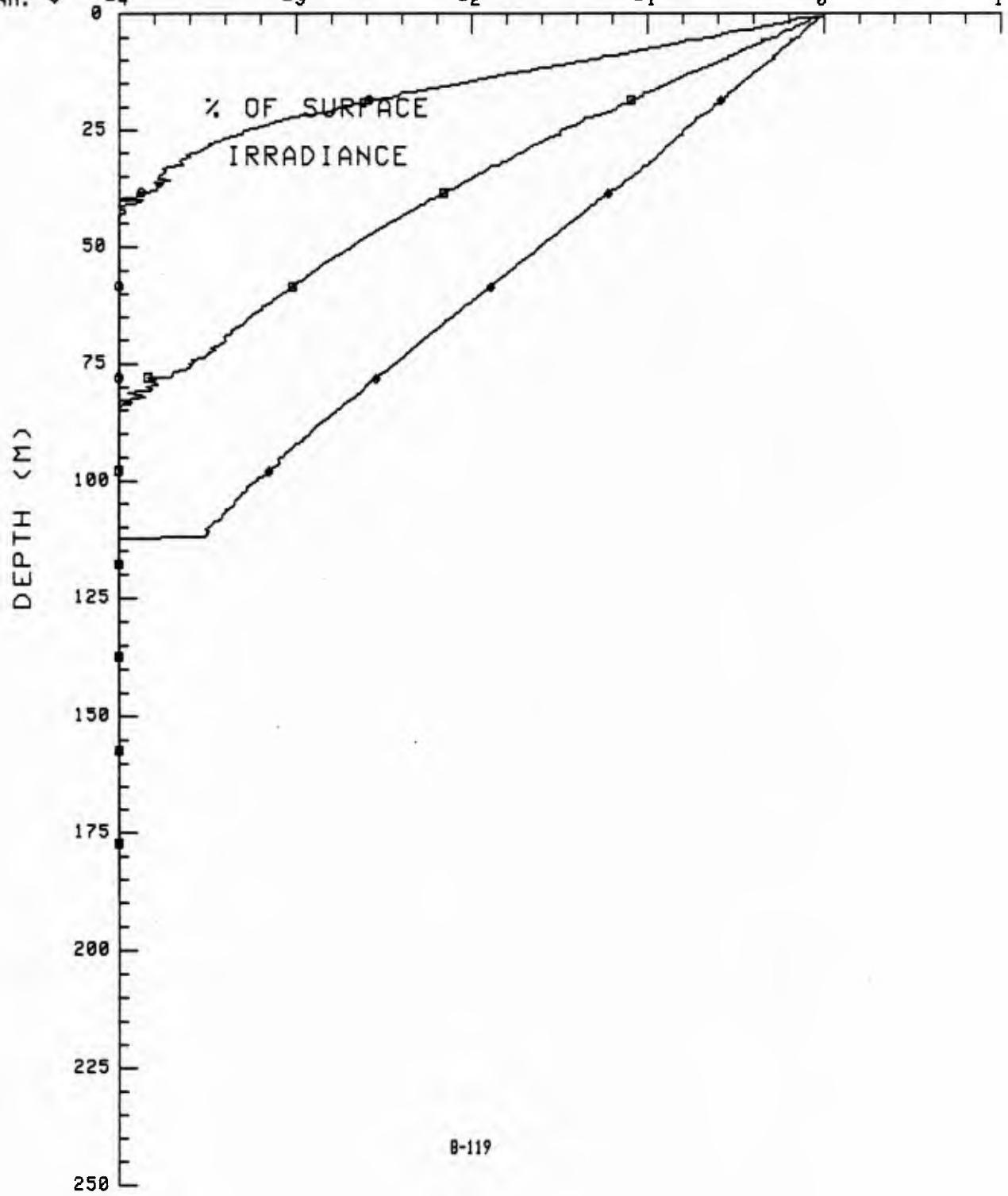
0

1



ODEX 3 STA 84 DN CAST 11-3-82 2010Z  
LATITUDE 32.5946N.                   LONGITUDE 140.4784W

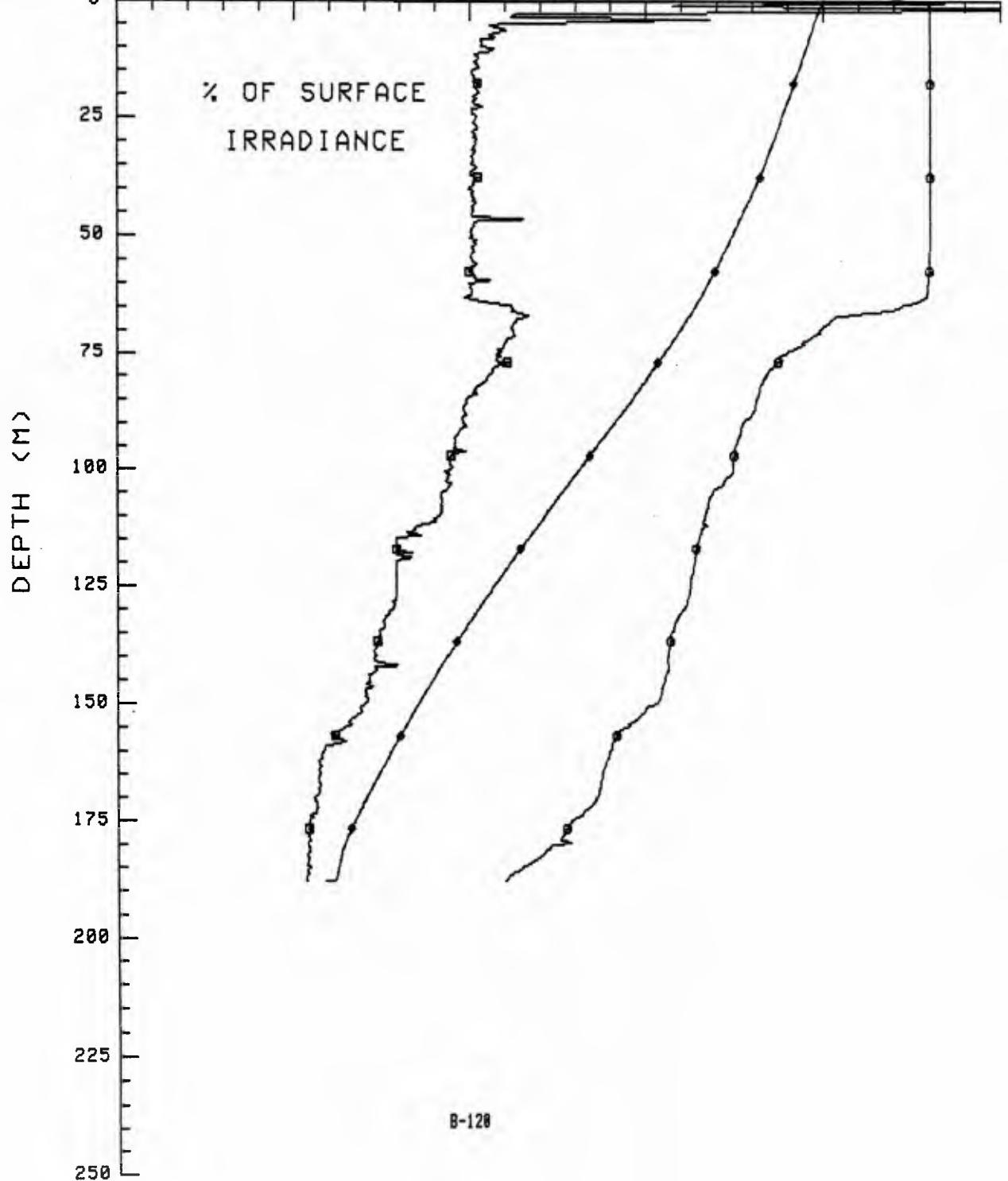
LOG 625 NM.	o	-4	-3	-2	-1	0	1
LOG 589 NM.	o	-4	-3	-2	-1	0	1
LOG 560 NM.	o	-4	-3	-2	-1	0	1



ODEX 3 STA 84 DN CAST 11-3-82 2010Z  
LATITUDE 32.5946N      LONGITUDE 140.4784W

TEMP. °C 665 #3 C LOG 488 NM. °

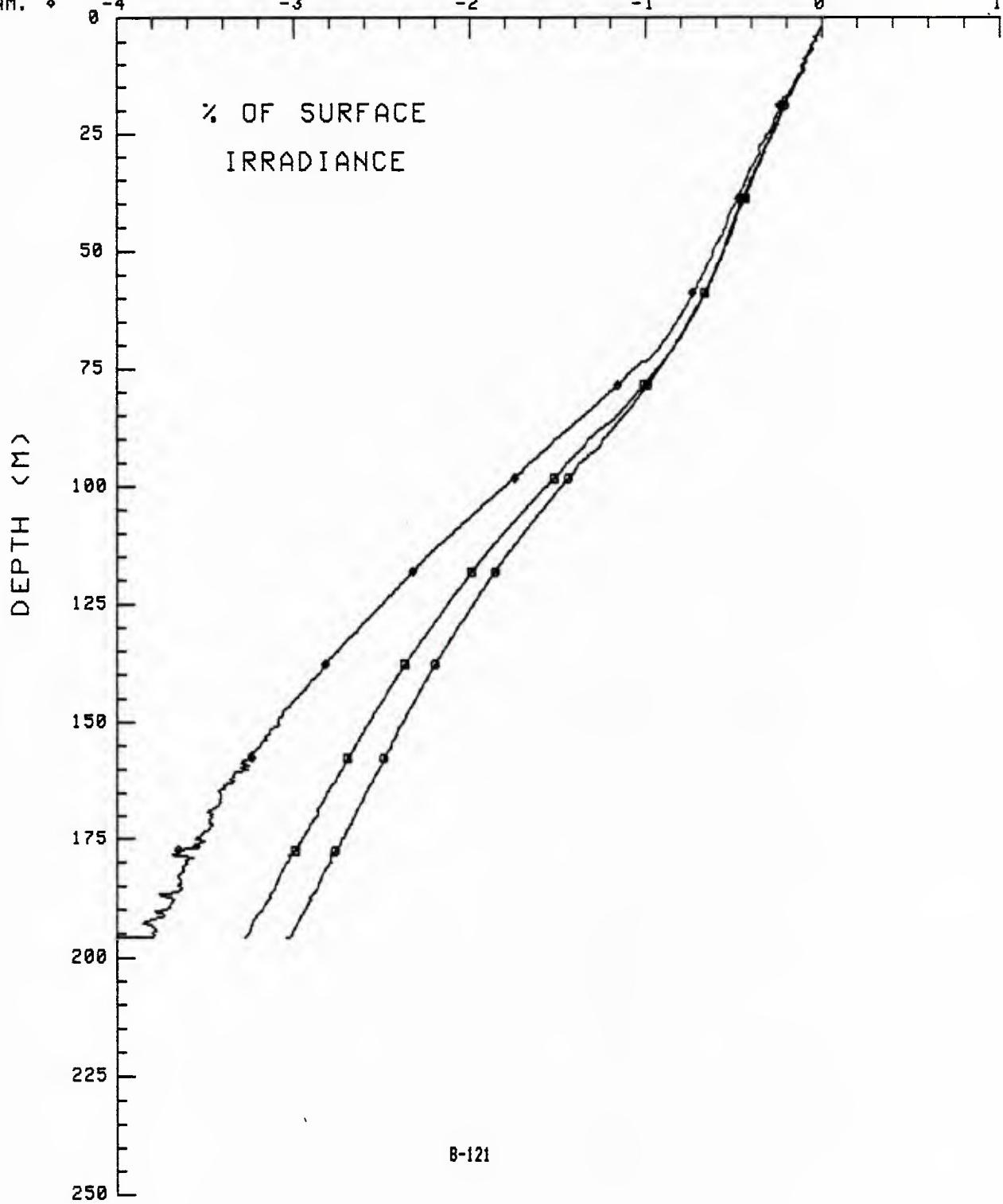
7	10	13	16	19	22
.35	.38	.41	.44	.47	.5
-4	-3	-2	-1	0	1
0					



ODEX 3 STA 185 DN CAST 11-5-82 20032  
LATITUDE 32.4650N LONGITUDE 141.2380W

LOG 465 NM. o -4  
LOG 441 NM. □ -4  
LOG 410 NM. ♦ -4

-3 -2 -1 0 1  
-3 -2 -1 0 1  
-3 -2 -1 0 1

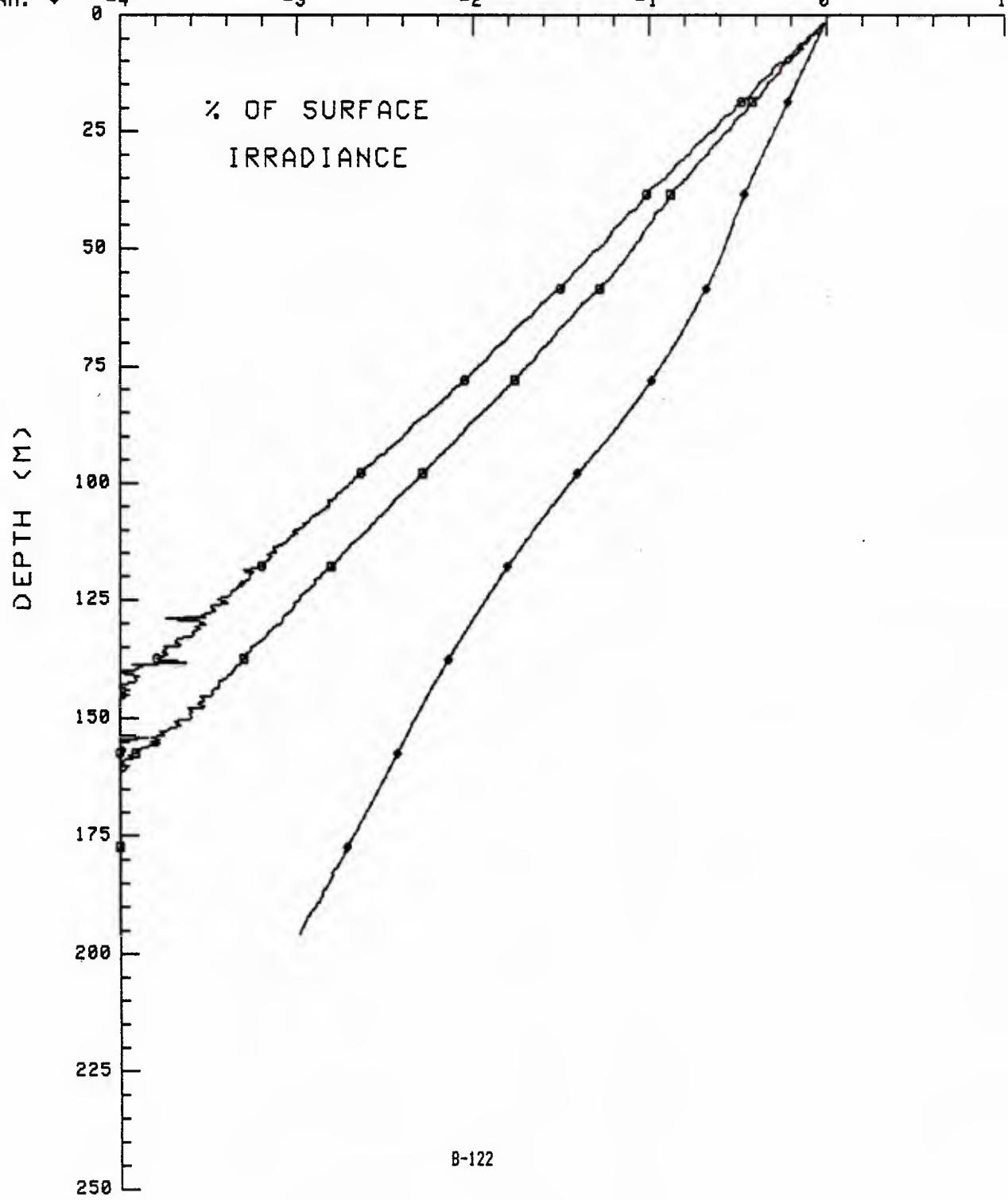


ODEX 3 STA 185 DN CAST 11-5-82 20032

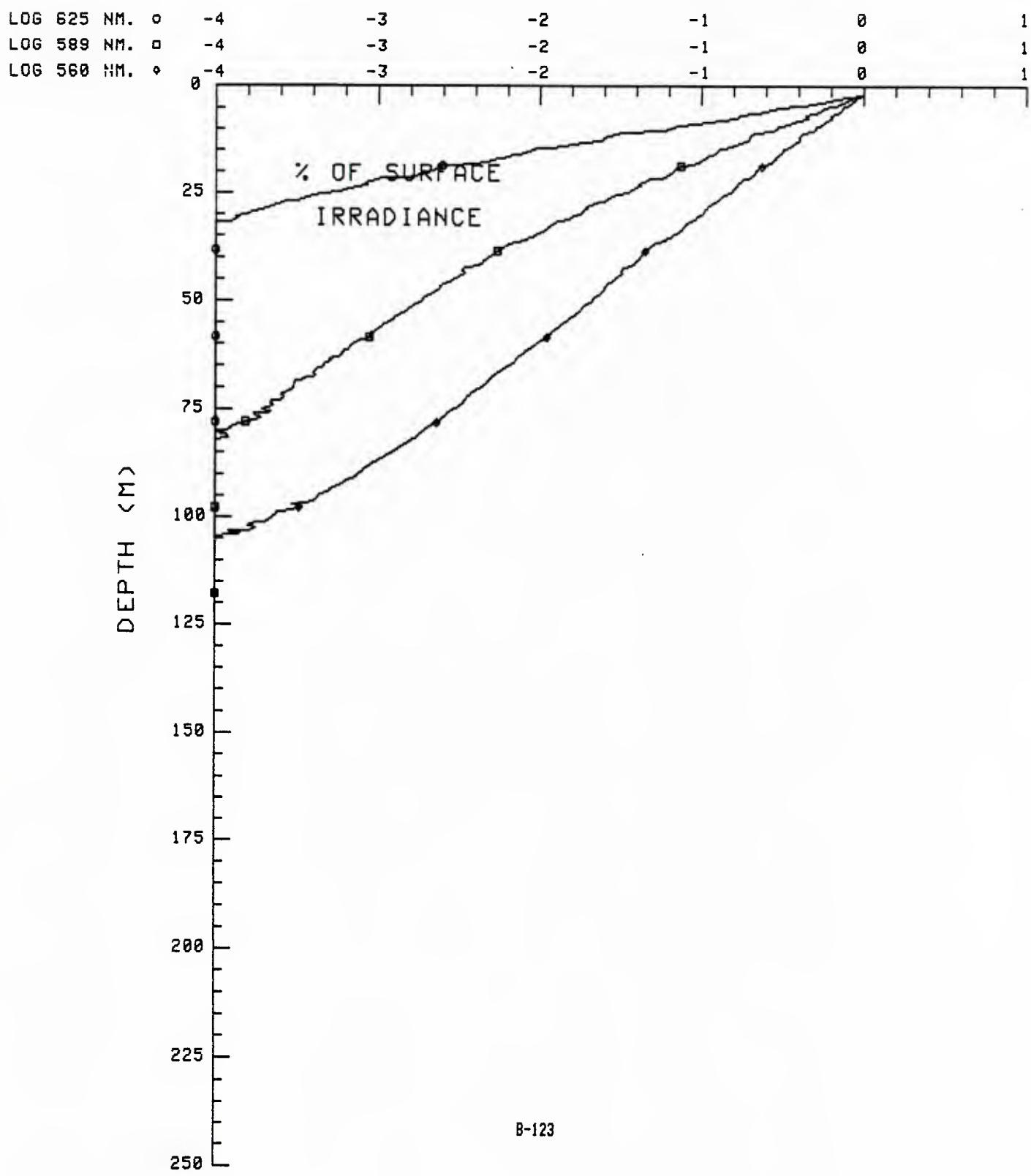
LATITUDE 32.4650N

LONGITUDE 141.2380W

LOG 540 NM.	○	-4	-3	-2	-1	0	1
LOG 520 NM.	□	-4	-3	-2	-1	0	1
LOG 488 NM.	◊	-4	-3	-2	-1	0	1



ODEX 3 STA 185 DN CAST 11-5-82 2003Z  
LATITUDE 32.4658N      LONGITUDE 141.2380W

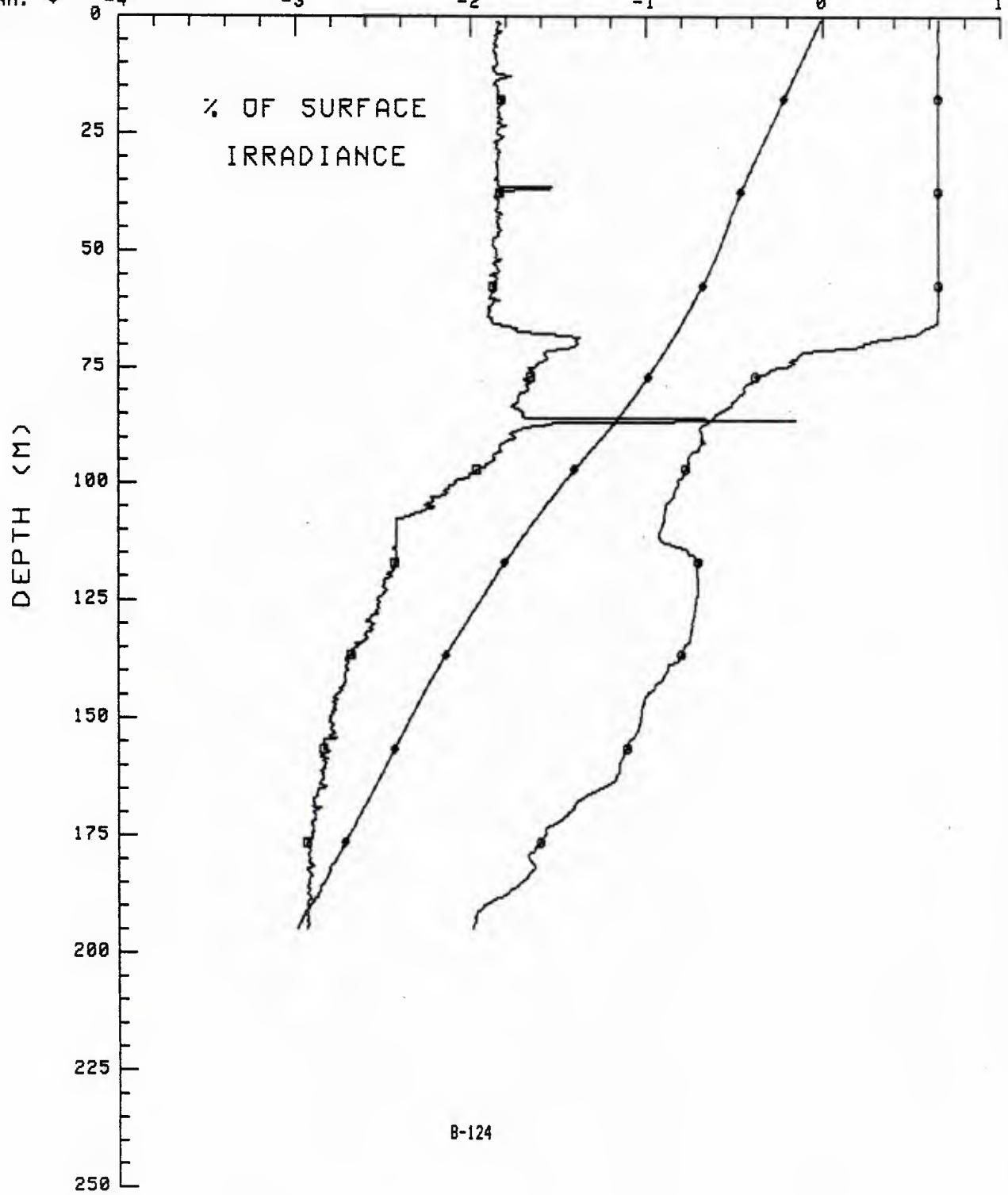


ODEX 3 STA 105 DN CAST 11-5-82 2003Z

LATITUDE 32.4658N

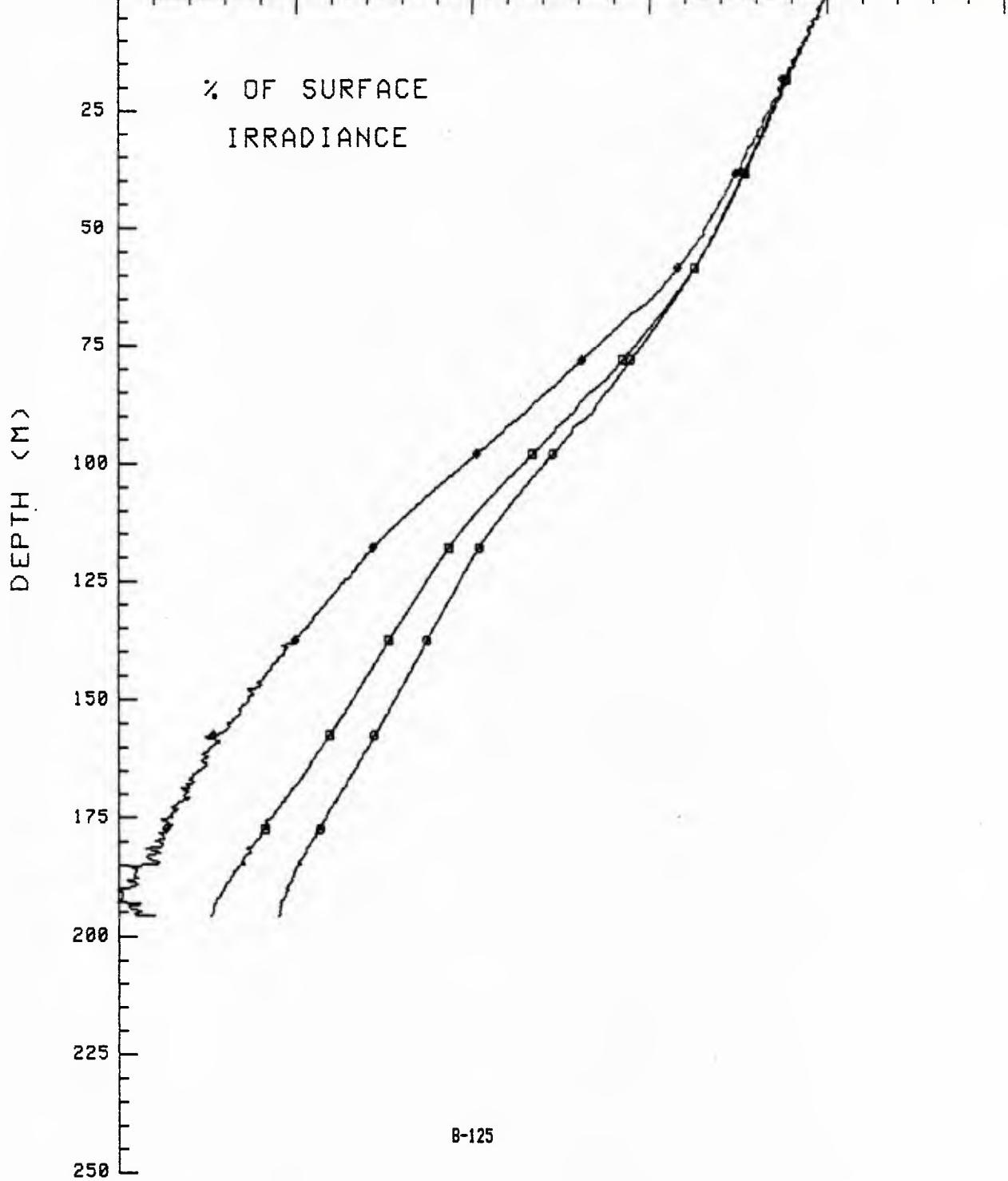
LONGITUDE 141.2388W

TEMP. °C 7 10 13 16 19 22  
C 665 #3 □ .35 .38 .41 .44 .47 .5  
LOG 488 NM. -4 -3 -2 -1 0 1



ODEX 3 STA 134 DN CAST 11-8-82 2200Z  
LATITUDE 32.5685N      LONGITUDE 142.15034

LOG 465 NM. 0 -4 -3 -2 -1 0 1  
LOG 441 NM. □ -4 -3 -2 -1 0 1  
LOG 410 NM. ♦ -4 -3 -2 -1 0 1



ODEX 3 STA 134 DN CAST 11-8-82 2200Z

LATITUDE 32.5685N

LONGITUDE 142.1503W

LOG 540 NM. o -4  
LOG 520 NM. □ -4  
LOG 488 NM. ♦ -4

-3

-2

-1

0

1

-3

-2

-1

0

1

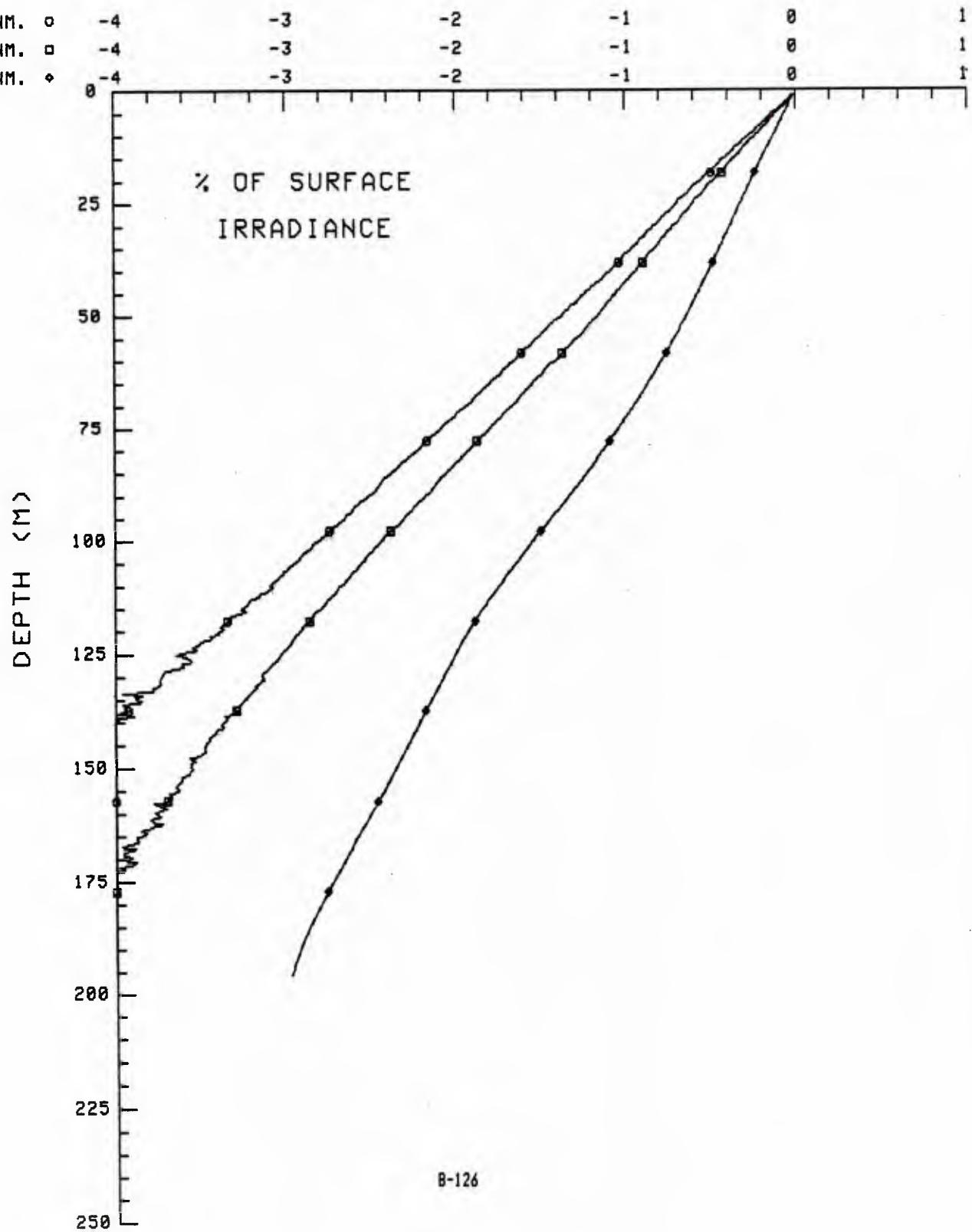
-3

-2

-1

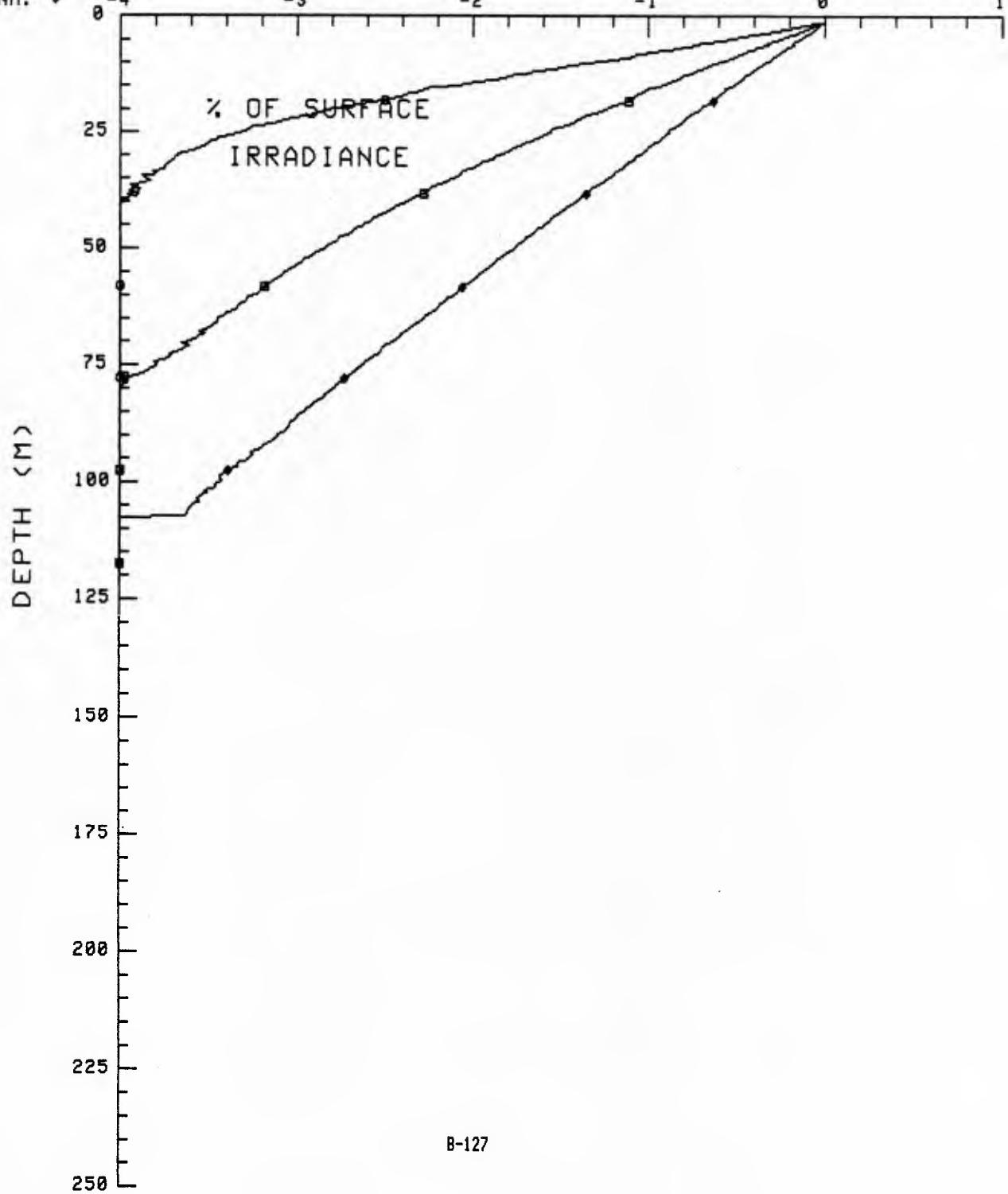
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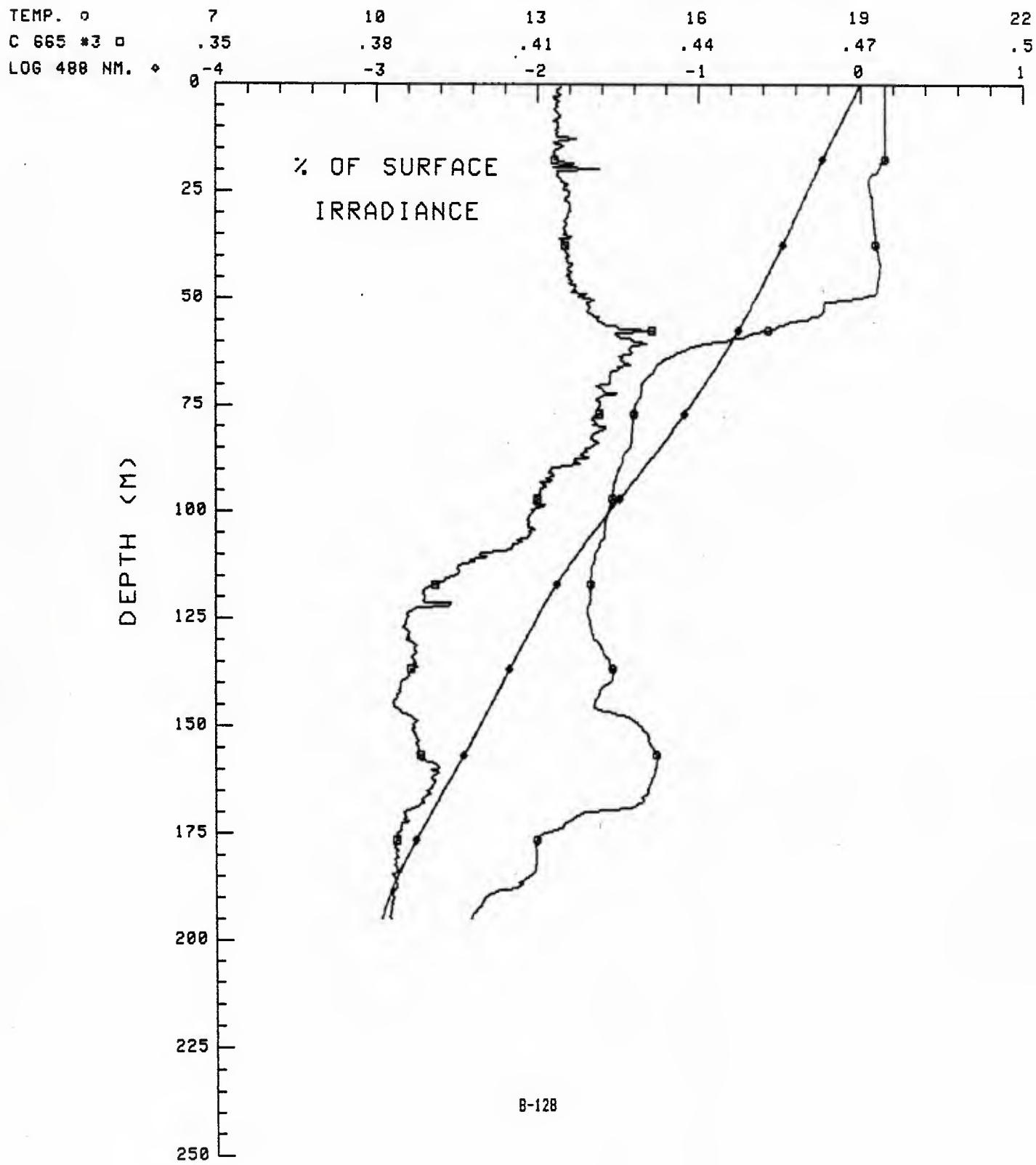


ODEX 3 STA 134 DN CAST 11-8-82 2200Z  
LATITUDE 32.5605N LONGITUDE 142.1503W

LOG 625 NM. 0 -4 -3 -2 -1 0 1  
LOG 589 NM. □ -4 -3 -2 -1 0 1  
LOG 560 NM. ♦ -4 -3 -2 -1 0 1



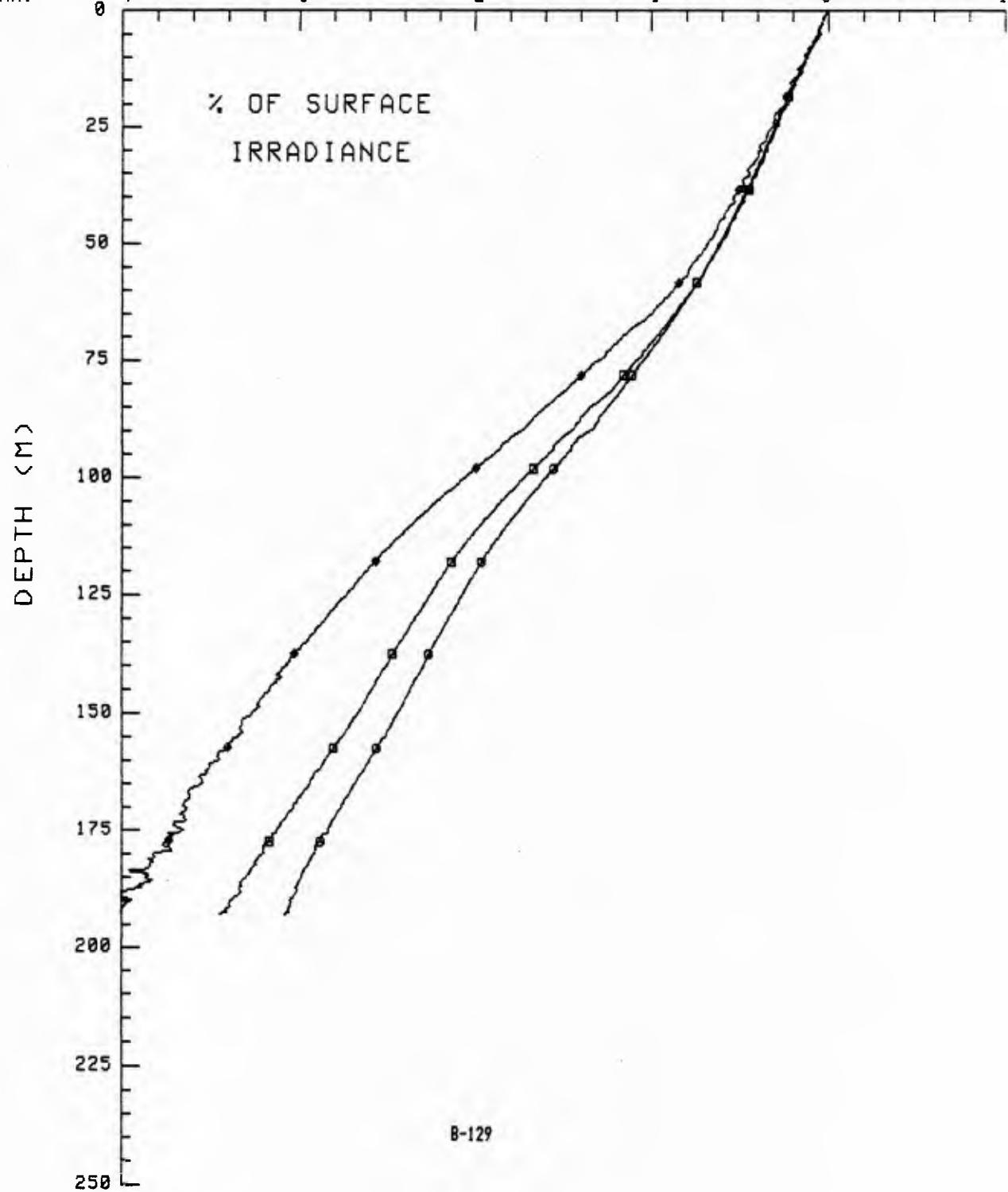
ODEX 3 STA 134 DN CAST 11-B-82 2200Z  
LATITUDE 32.5605N      LONGITUDE 142.1503W



ODEX 3 STA 134 UP CAST 11-8-82 2214Z  
LATITUDE 32.5685N      LONGITUDE 142.1503W

LOG 465 NM. 0 -4  
LOG 441 NM. □ -4  
LOG 410 NM. ♦ -4

-3 -2 -1 0 1  
-3 -2 -1 0 1  
-3 -2 -1 0 1



ODDEX 3 STA 134 UP CAST 11-8-82 2214Z

LATITUDE 32.5685N

LONGITUDE 142.1503W

LOG 540 NM. 0 -4

-3

-2

-1

0

1

LOG 520 NM. □ -4

-3

-2

-1

0

1

LOG 488 NM. ◇ -4

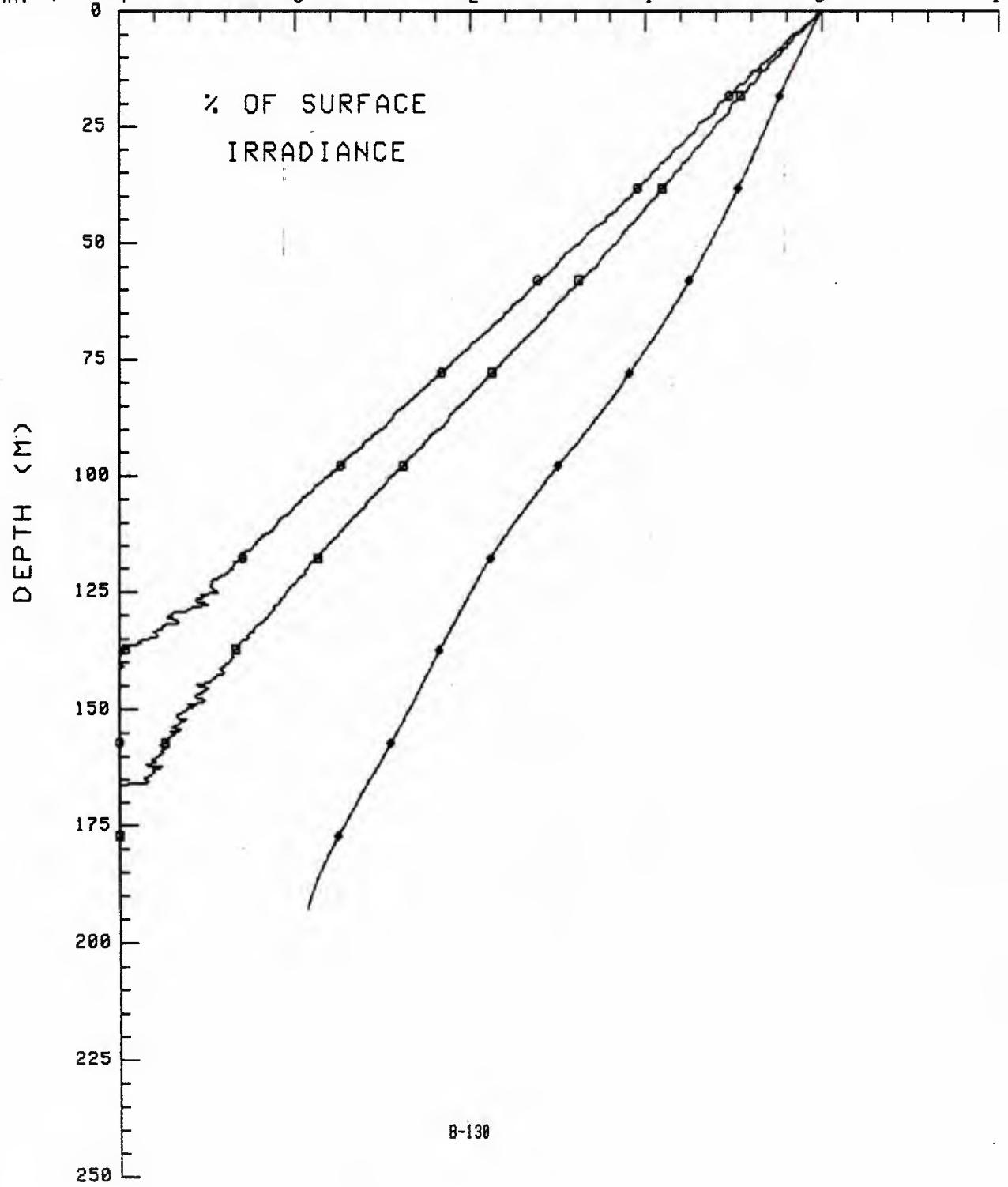
-3

-2

-1

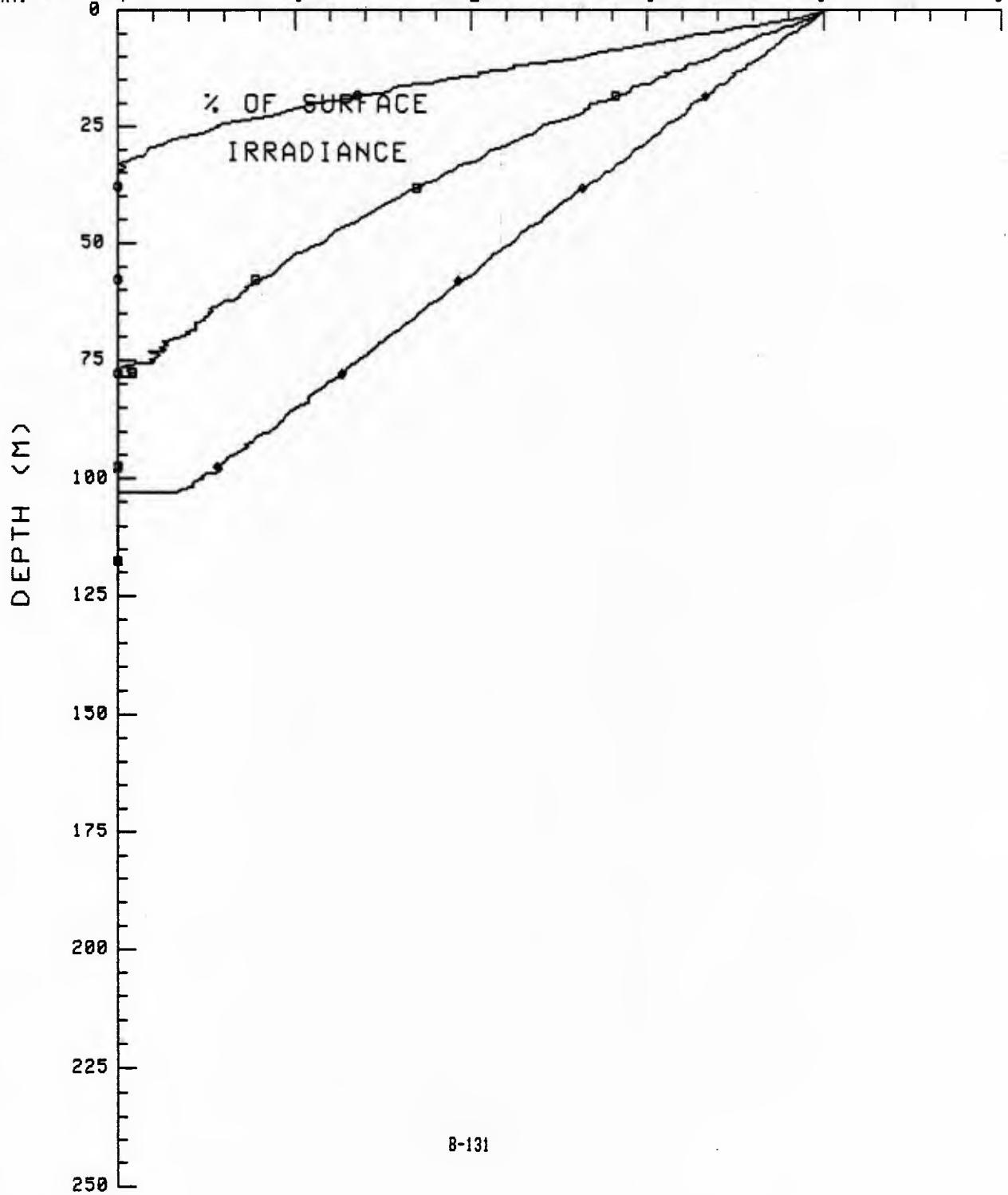
0

1



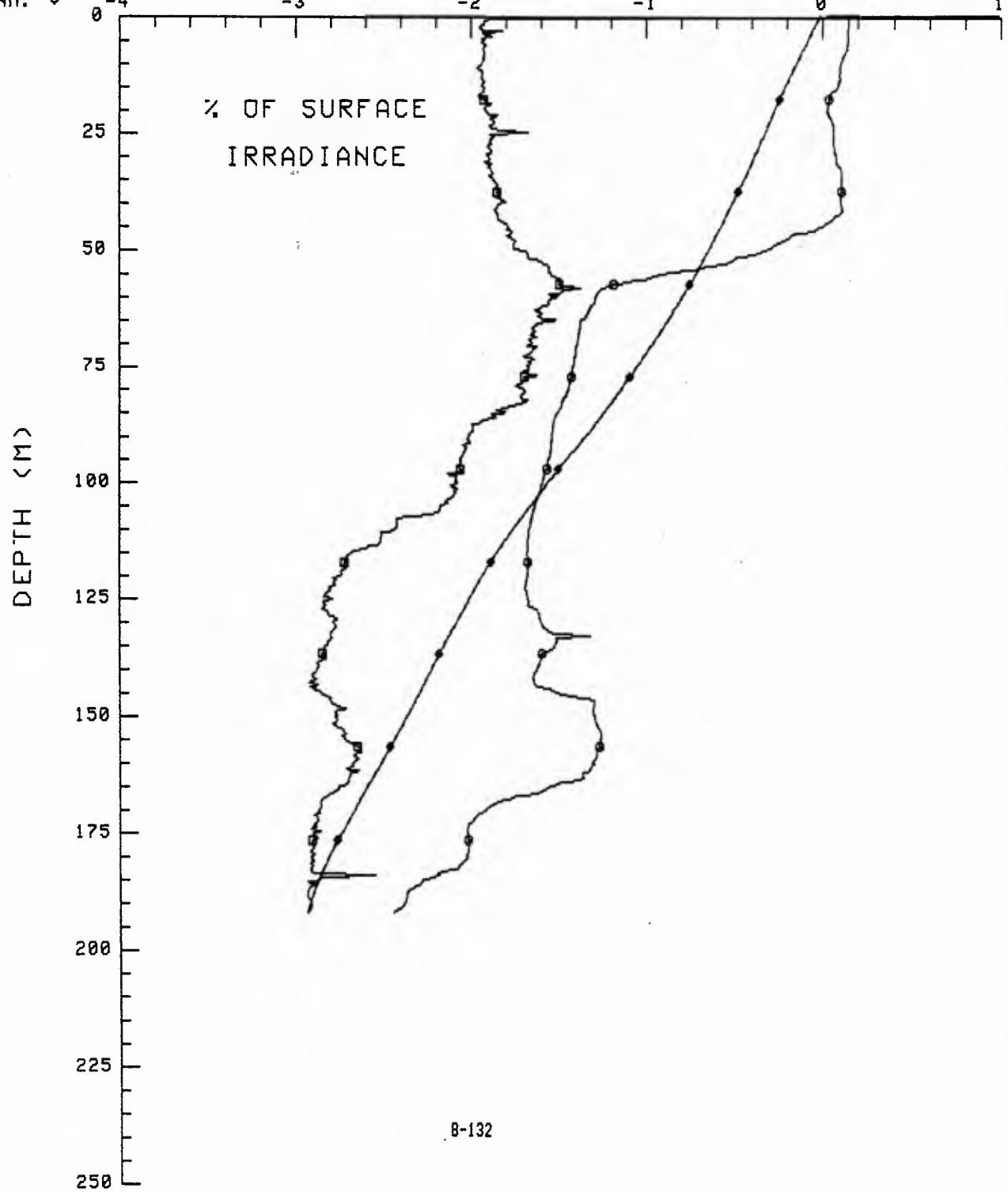
ODEX 3 STA 134 UP CAST 11-8-82 2214Z  
LATITUDE 32.5605N      LONGITUDE 142.1503W

LOG 625 NM. ○ -4 -3 -2 -1 0 1  
LOG 589 NM. □ -4 -3 -2 -1 0 1  
LOG 560 NM. ♦ -4 -3 -2 -1 0 1



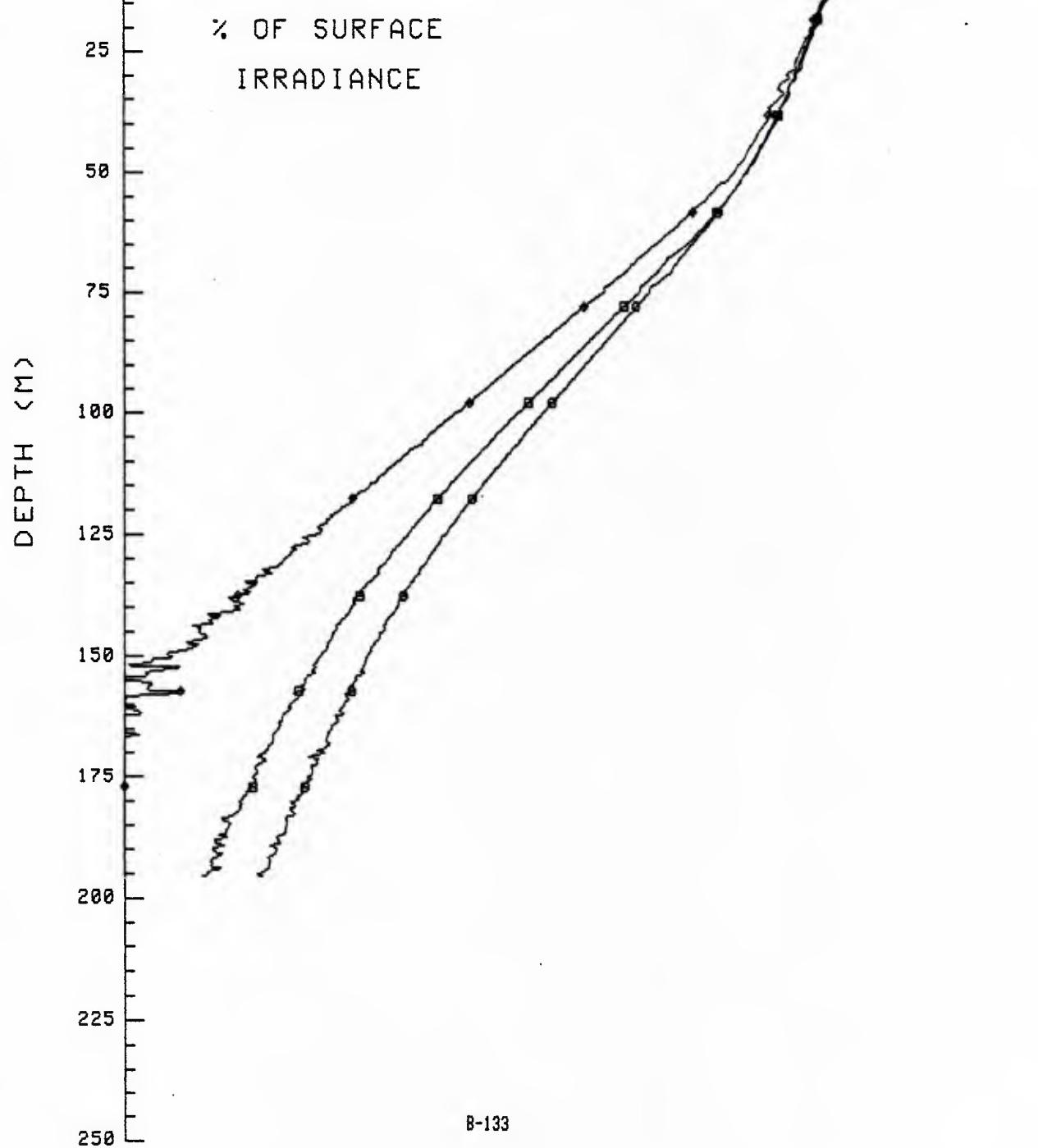
ODEX 3 STA 134 UP CAST 11-8-82 2214Z  
LATITUDE 32.5605N      LONGITUDE 142.1503W

TEMP. ° 7 10 13 16 19 22  
C 665 \*3 □ .35 .38 .41 .44 .47 .5  
LOG 488 NM. ° -4 -3 -2 -1 0 1



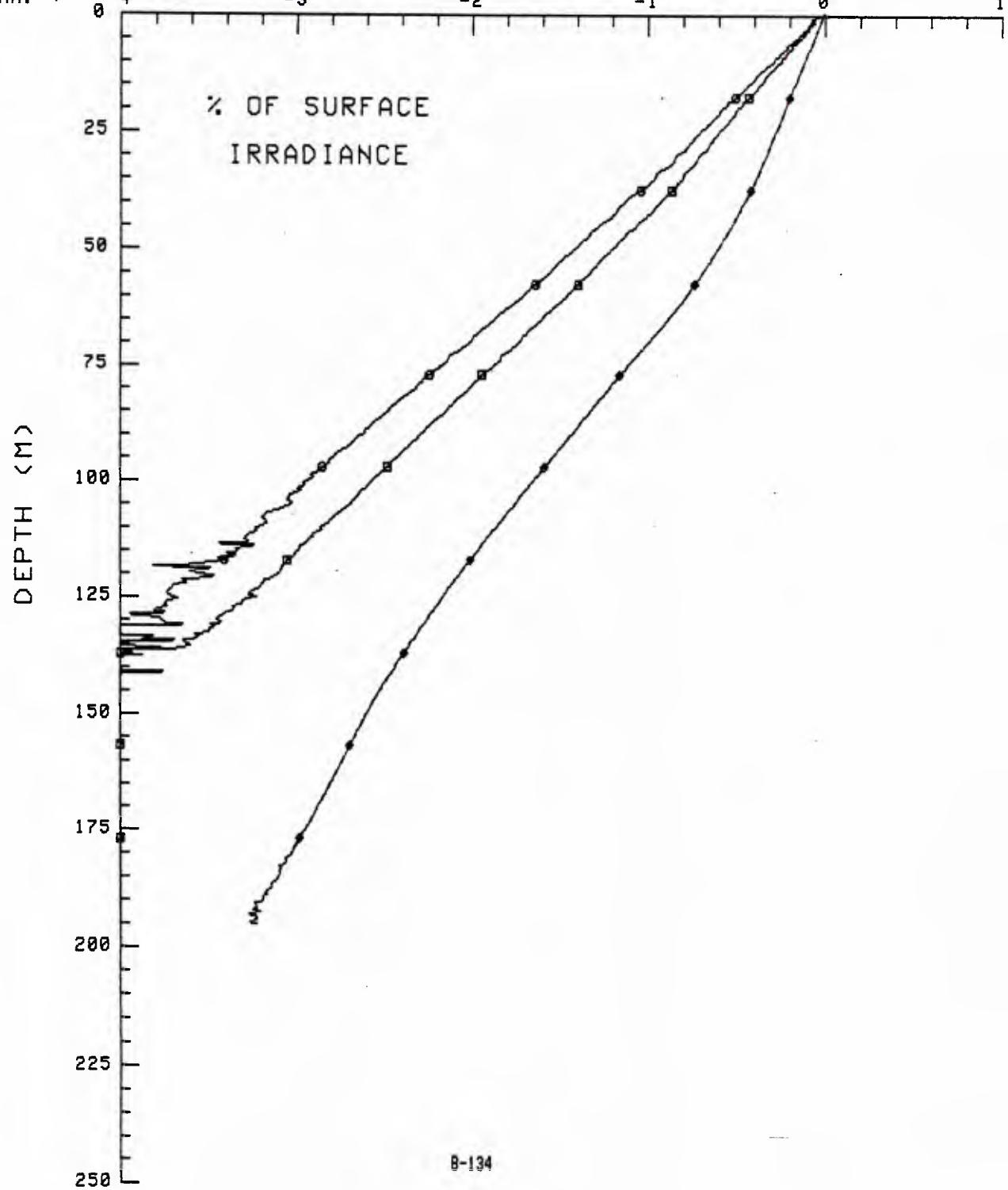
ODDEX 3 STA 167 DN CAST 11-12-82 2338Z  
LATITUDE 33.479N      LONGITUDE 136.468W

LOG 465 NM. ◦ -4      -3      -2      -1      0      1  
LOG 441 NM. □ -4      -3      -2      -1      0      1  
LOG 410 NM. ♦ -4      -3      -2      -1      0      1



ODEX 3 STA 167 DN CAST 11-12-82 2338Z  
LATITUDE 33.4790N LONGITUDE 136.4680W

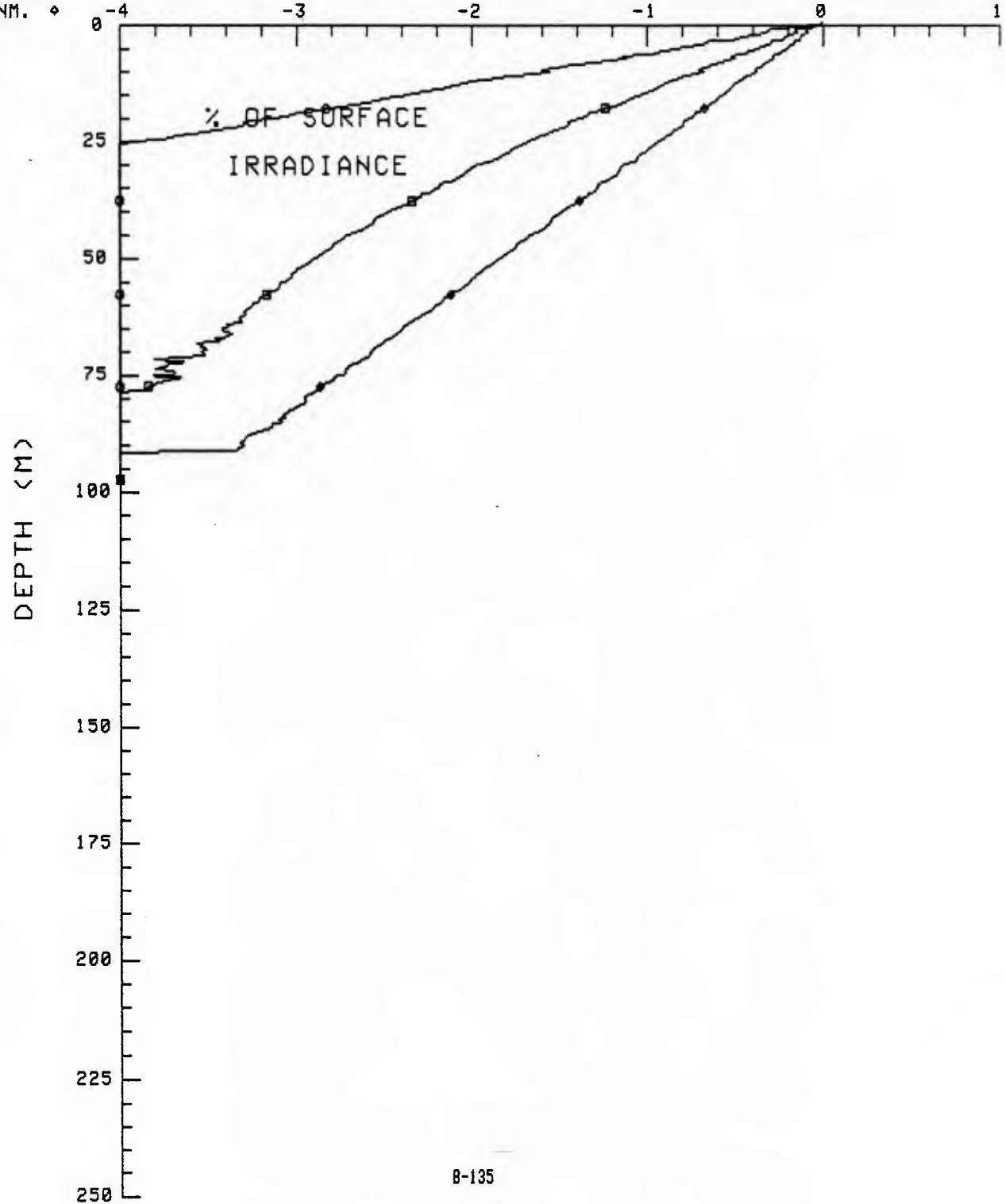
LOG 540 NM. o -4 -3 -2 -1 0 1  
LOG 520 NM. □ -4 -3 -2 -1 0 1  
LOG 488 NM. ♦ -4 -3 -2 -1 0 1



ODEX 3 STA 167 DN CAST 11-12-82 2338Z  
LATITUDE 33.4790N      LONGITUDE 136.4680W

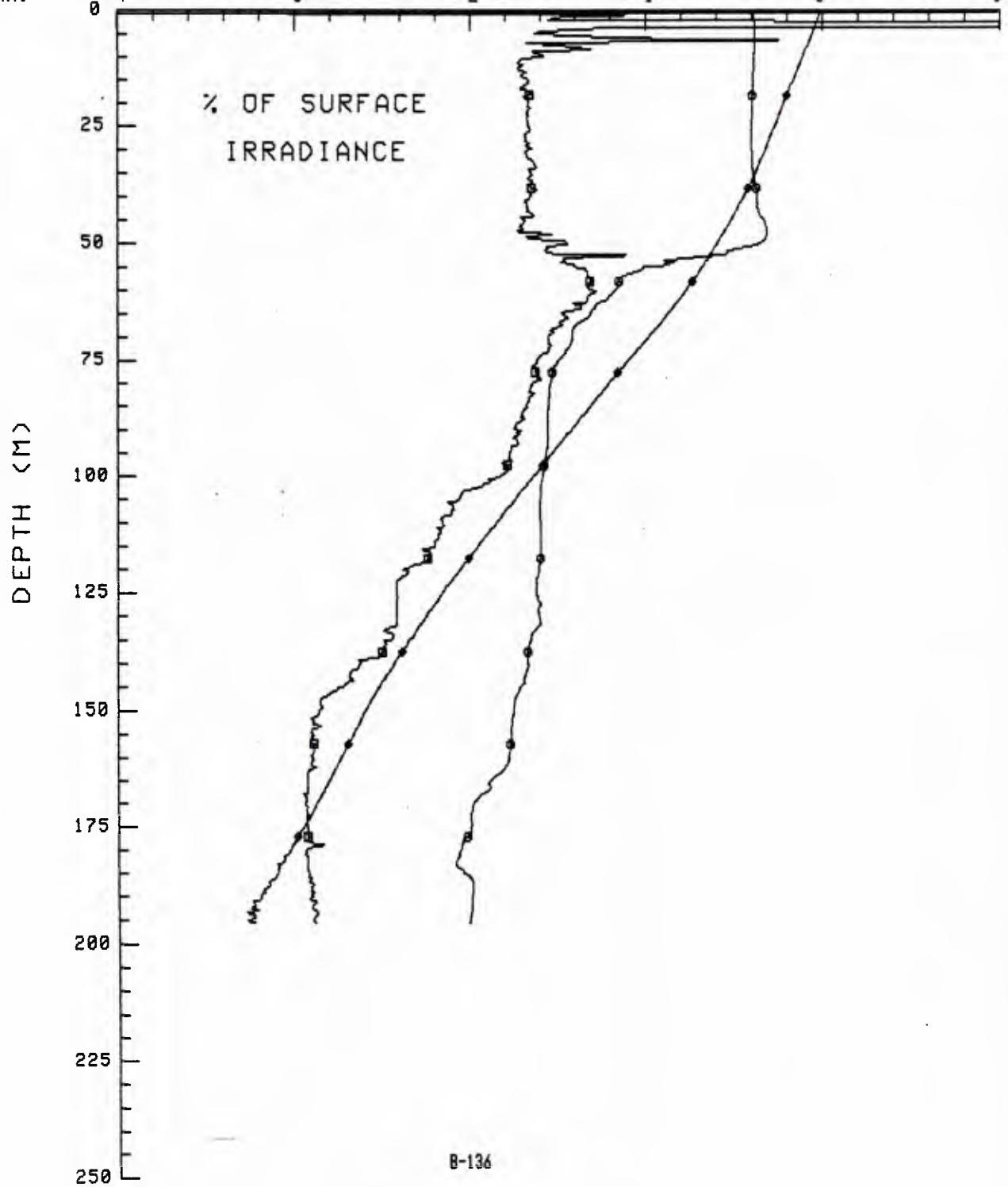
LOG 625 NM. 0 -4  
LOG 589 NM. □ -4  
LOG 560 NM. ♦ -4

-3      -2      -1      0      1  
-3      -2      -1      0      1  
-3      -2      -1      0      1



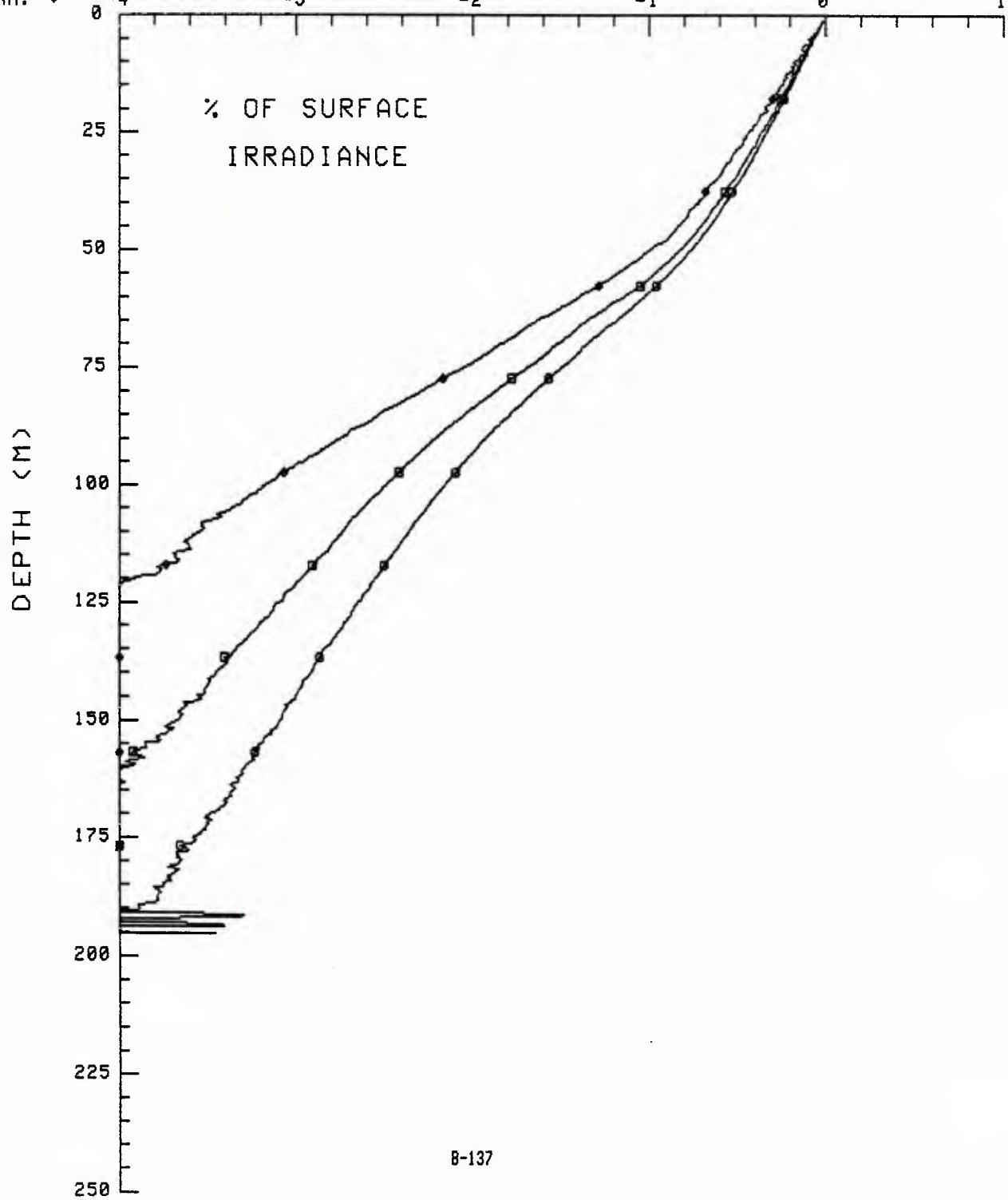
ODEX 3 STA 167 DN CAST 11-12-82 2338Z  
LATITUDE 33.4790N      LONGITUDE 136.4680W

TEMP. ° 7 10 13 16 19 22  
C 665 #3 □ .35 .38 .41 .44 .47 .5  
LOG 488 NM. ♦ -4 -3 -2 -1 0 1



ODEX 3 STA 170 DN CAST 11-15-82 1926Z  
LATITUDE 34.4828N      LONGITUDE 127.1375W

LOG 465 NM. 0 -4 -3 -2 -1 0 1  
LOG 441 NM. □ -4 -3 -2 -1 0 1  
LOG 410 NM. ♦ -4 -3 -2 -1 0 1



ODEX 3 STA 170 DN CAST 11-15-82 19262

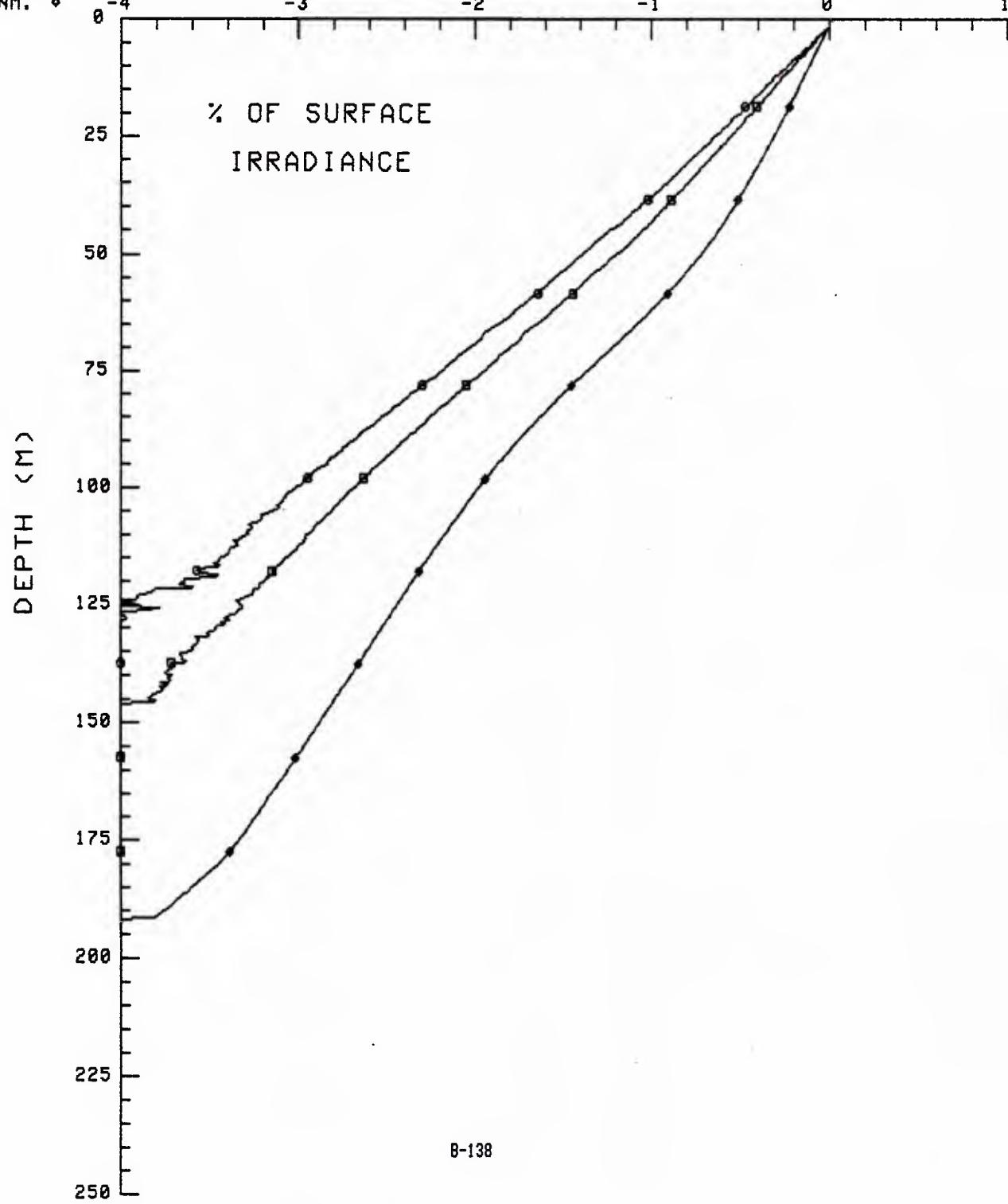
LATITUDE 34.4828N

LONGITUDE 127.1375W

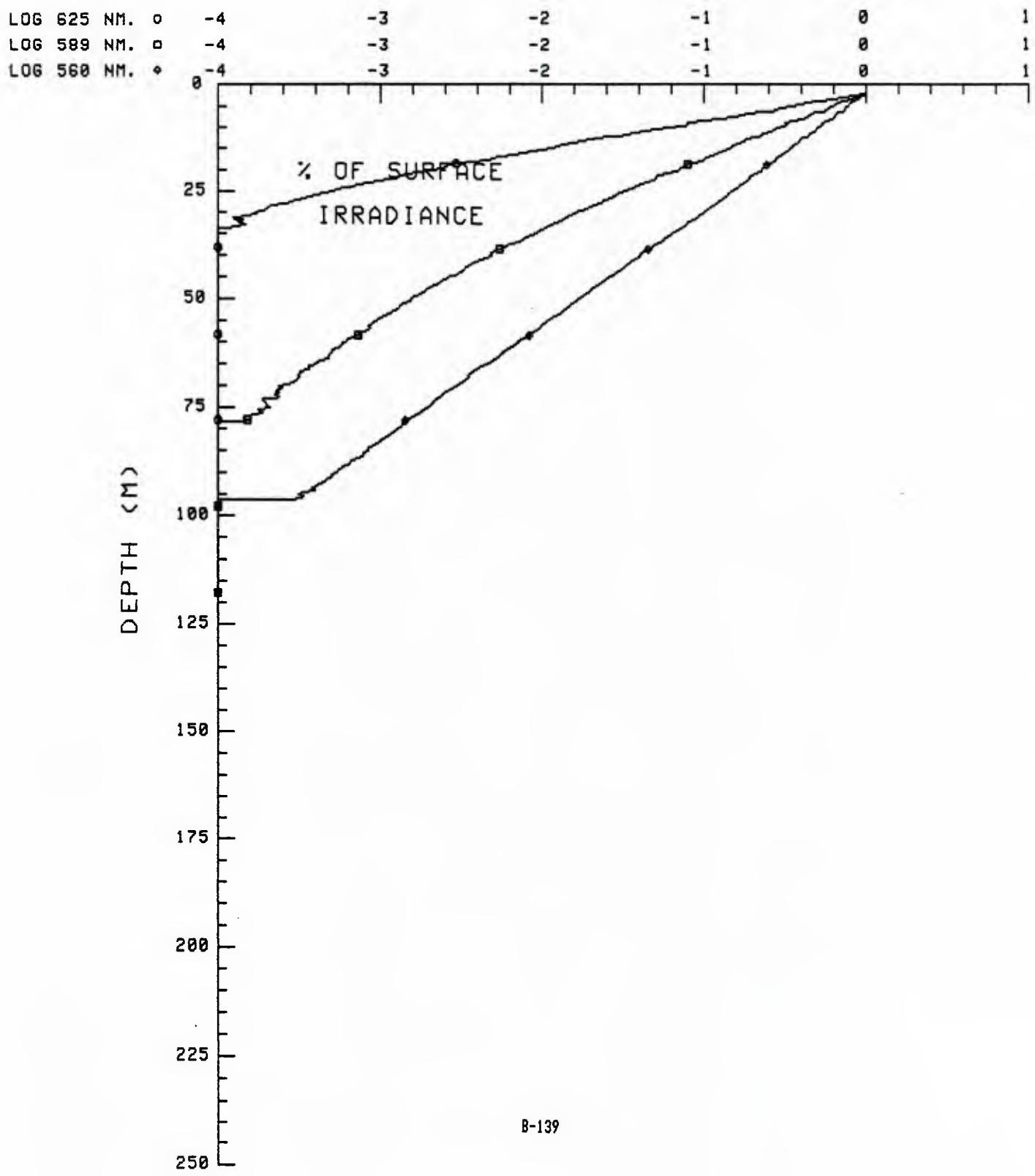
LOG 540 NM. 0 -4 -3 -2 -1 0 1

LOG 520 NM. □ -4 -3 -2 -1 0 1

LOG 488 NM. ♦ -4 -3 -2 -1 0 1



ODEX 3 STA 178 DN CAST 11-15-82 19262  
LATITUDE 34.4828N LONGITUDE 127.1375W

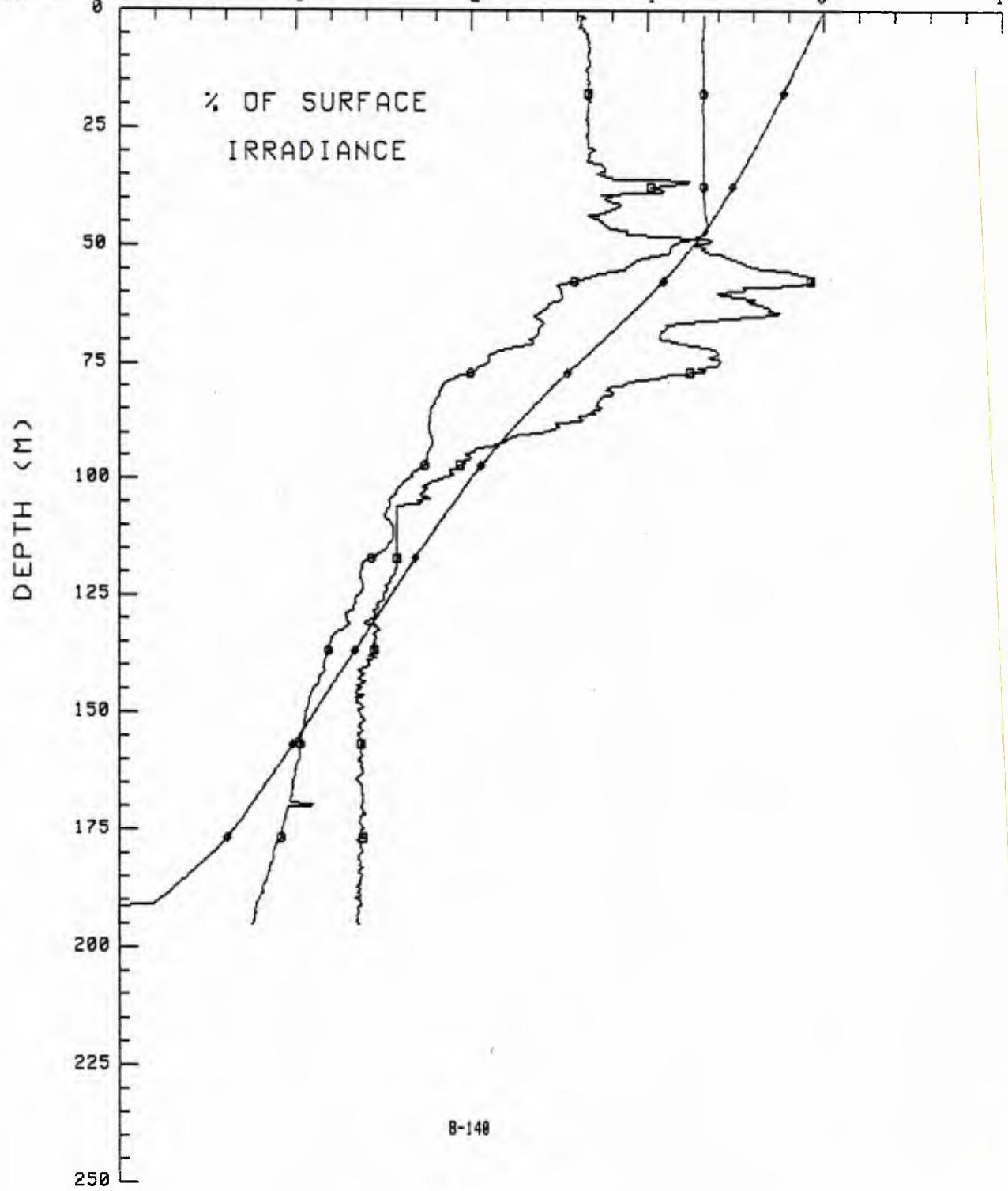


ODEX 3 STA 170 DN CAST 11-15-82 1926Z

LATITUDE 34.4828N

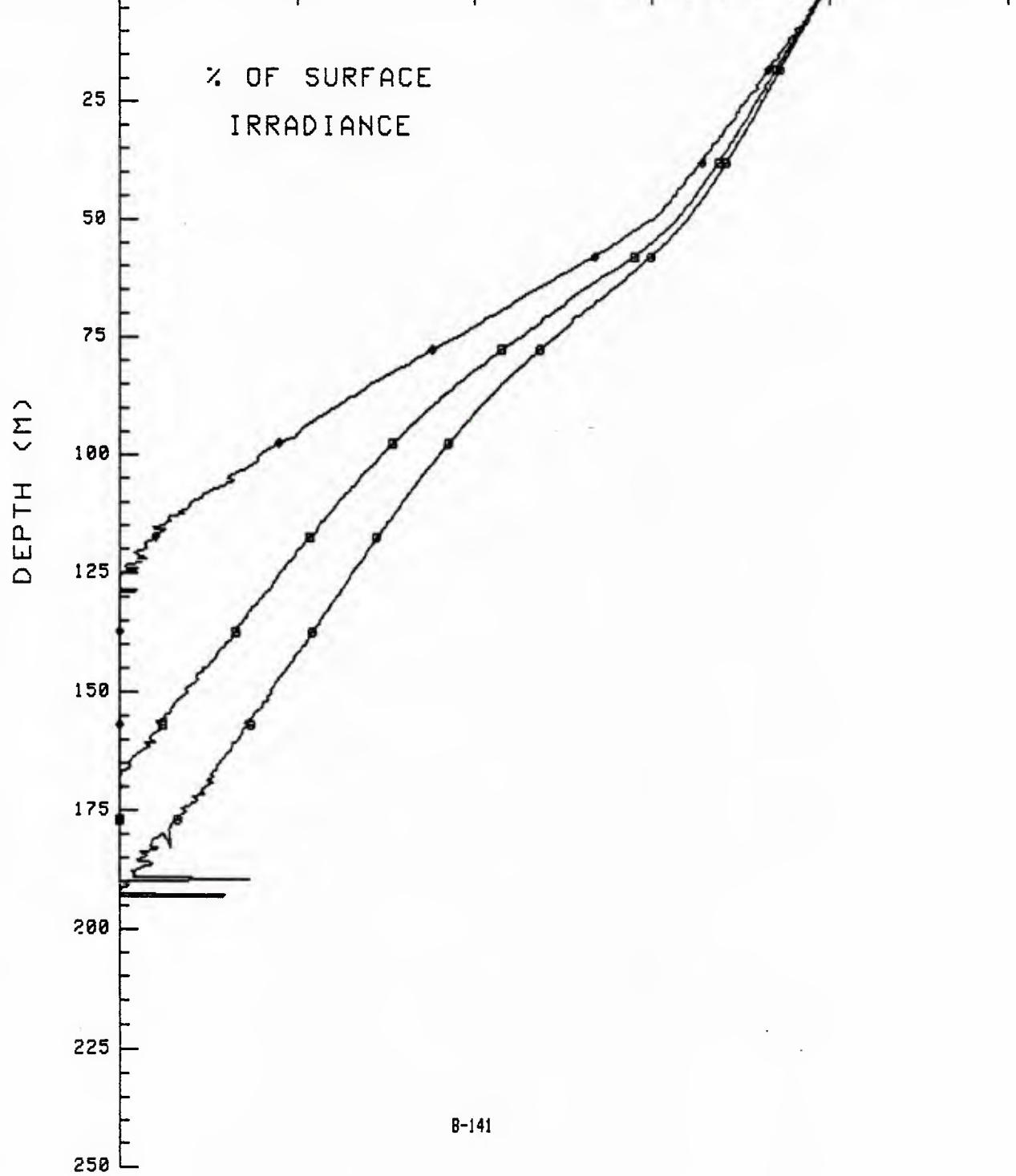
LONGITUDE 127.1375W

TEMP. °C	7	10	13	16	19	22
C 665 *3	.35	.38	.41	.44	.47	.5
LOG 488 NM.	-4	-3	-2	-1	0	1

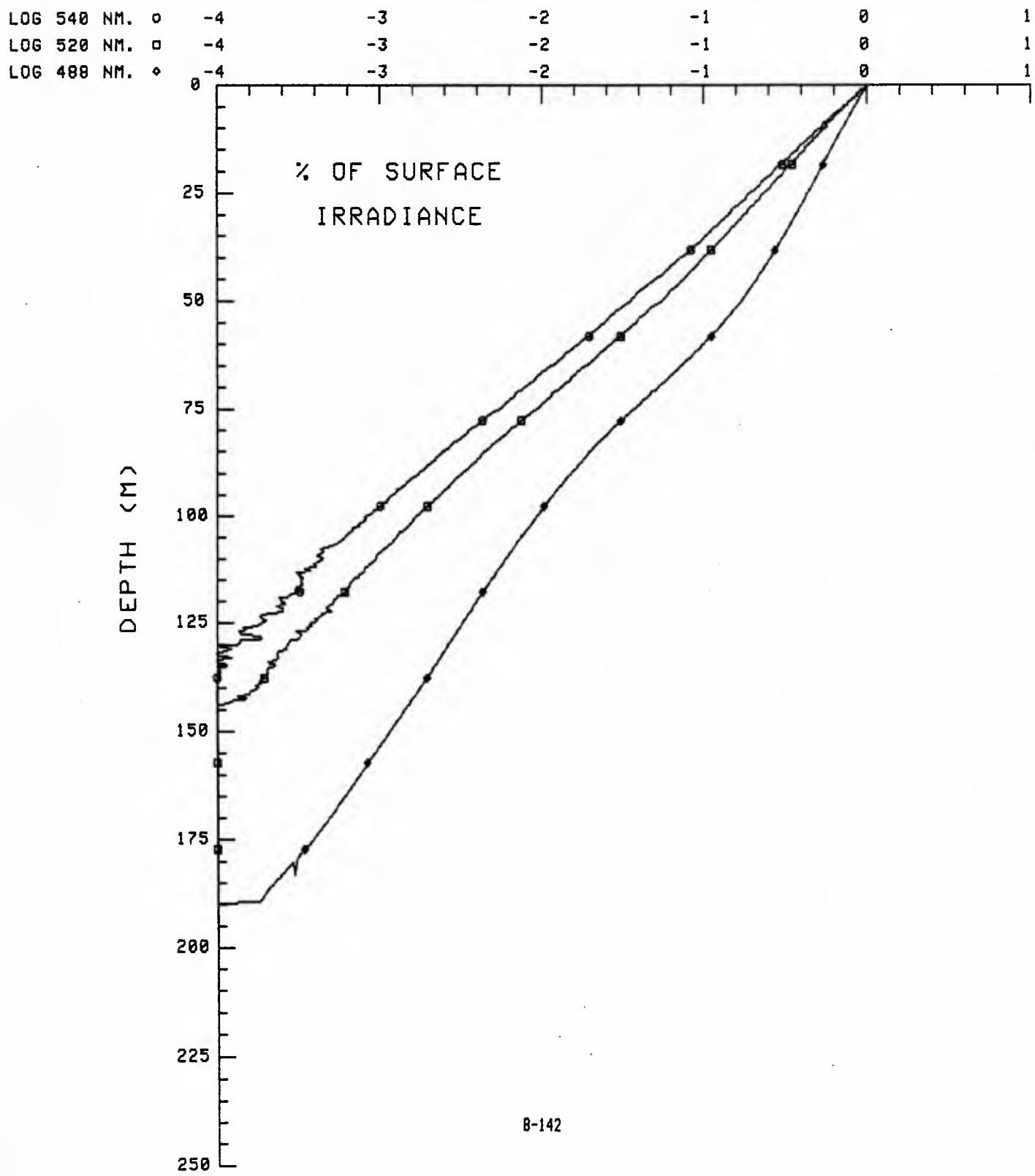


ODEX 3 STA 170 UP CAST 11-15-82 1935Z  
LATITUDE 34.4828N      LONGITUDE 127.1375W

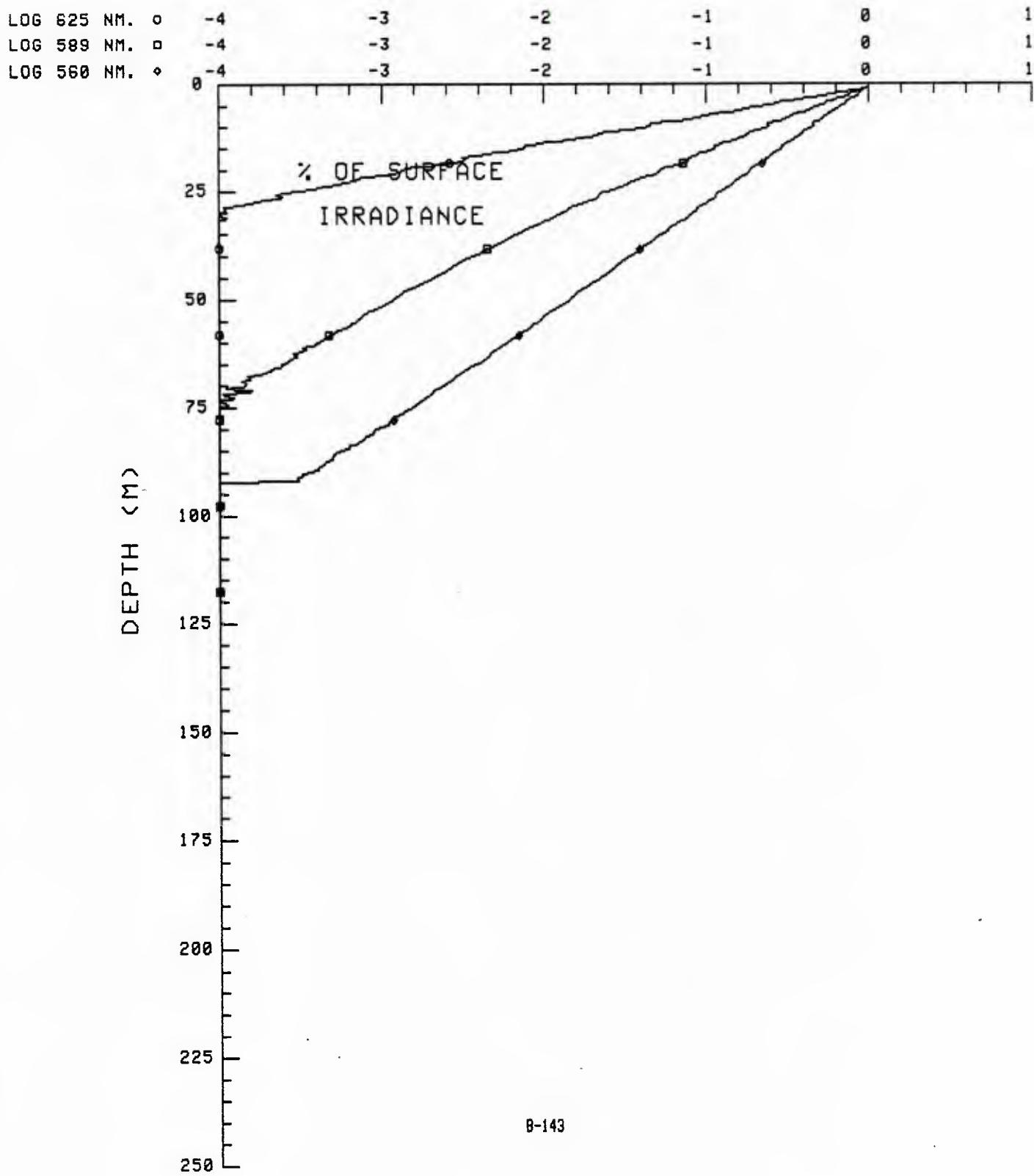
LOG 465 NM. □ -4 -3 -2 -1 0 1  
LOG 441 NM. □ -4 -3 -2 -1 0 1  
LOG 410 NM. △ -4 -3 -2 -1 0 1



ODEX 3 STA 170 UP CAST 11-15-82 1935Z  
LATITUDE 34.4828N LONGITUDE 127.1375W



ODEX 3 STA 170 UP CAST 11-15-82 1935Z  
LATITUDE 34.4828N      LONGITUDE 127.1375W

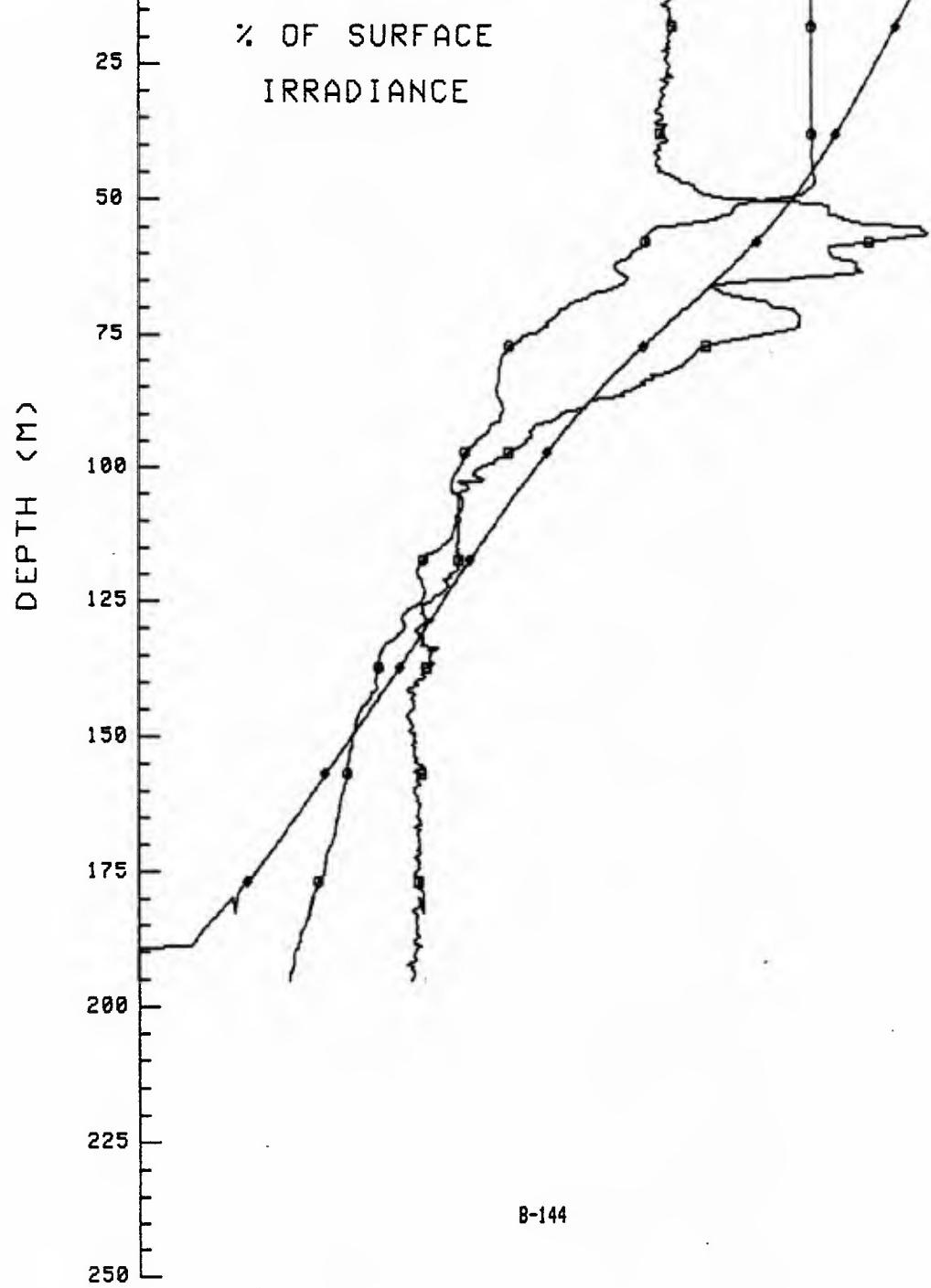


ODEX 3 STA 170 UP CAST 11-15-82 1935Z

LATITUDE 34.4828N

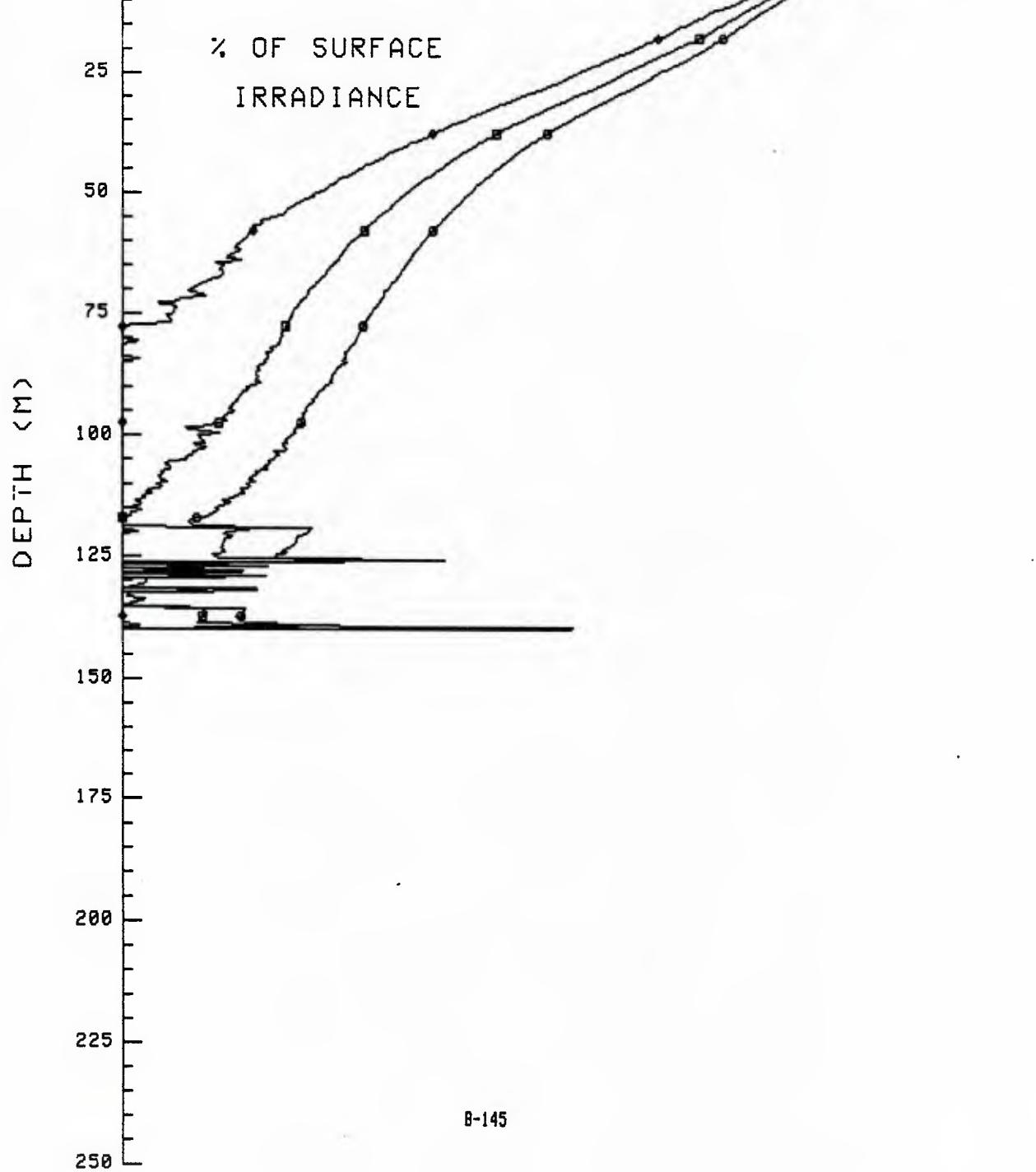
LONGITUDE 127.1375W

TEMP. °C  
LOG 488 NM. ♦  
C 665 \*3 □  
7 10 13 16 19 22  
.35 .38 .41 .44 .47 .5  
-4 -3 -2 -1 0 1

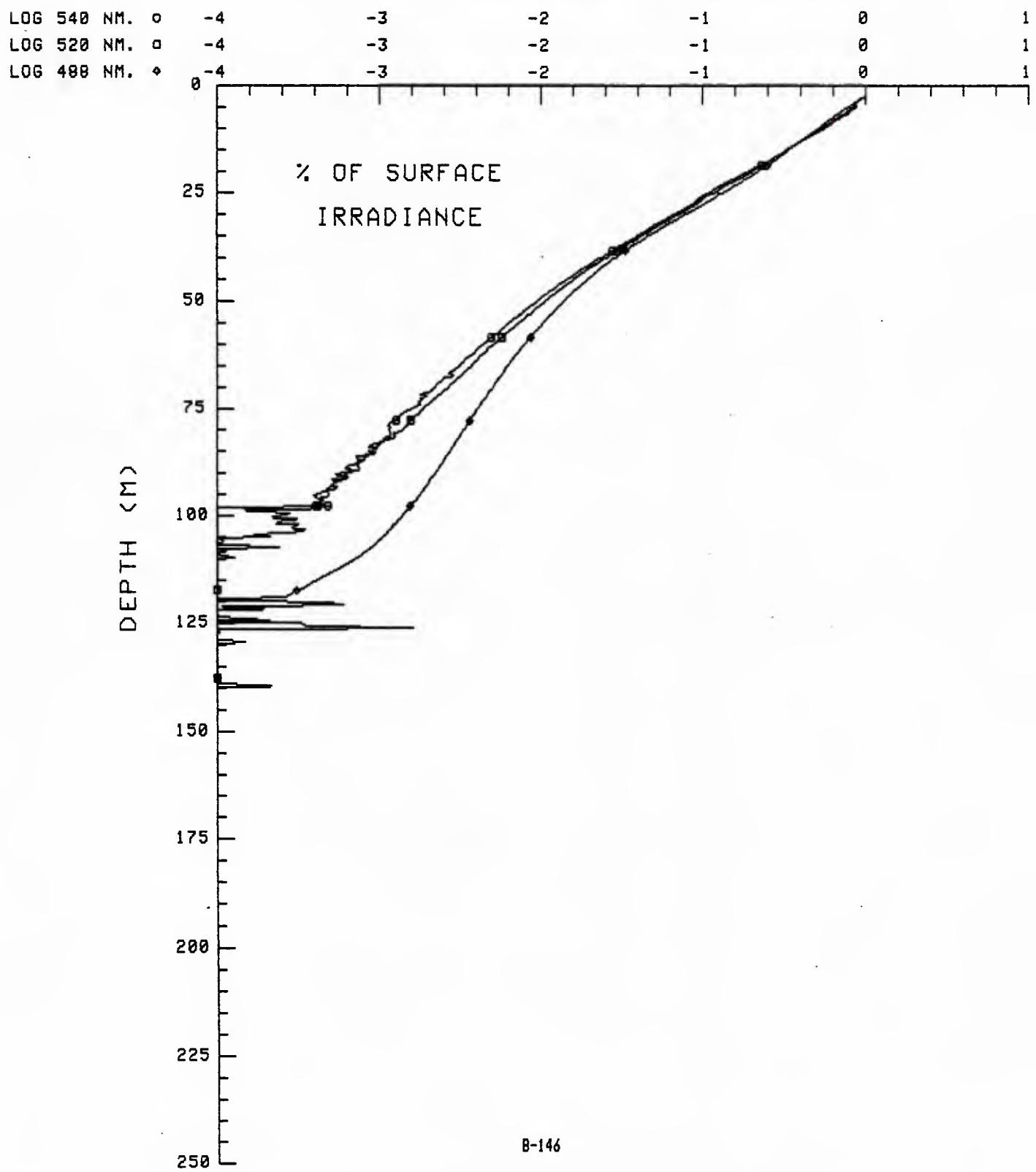


ODEX 3 STA 176 UP CAST 11-16-82 2328Z  
LATITUDE 34.5865N      LONGITUDE 123.3559W

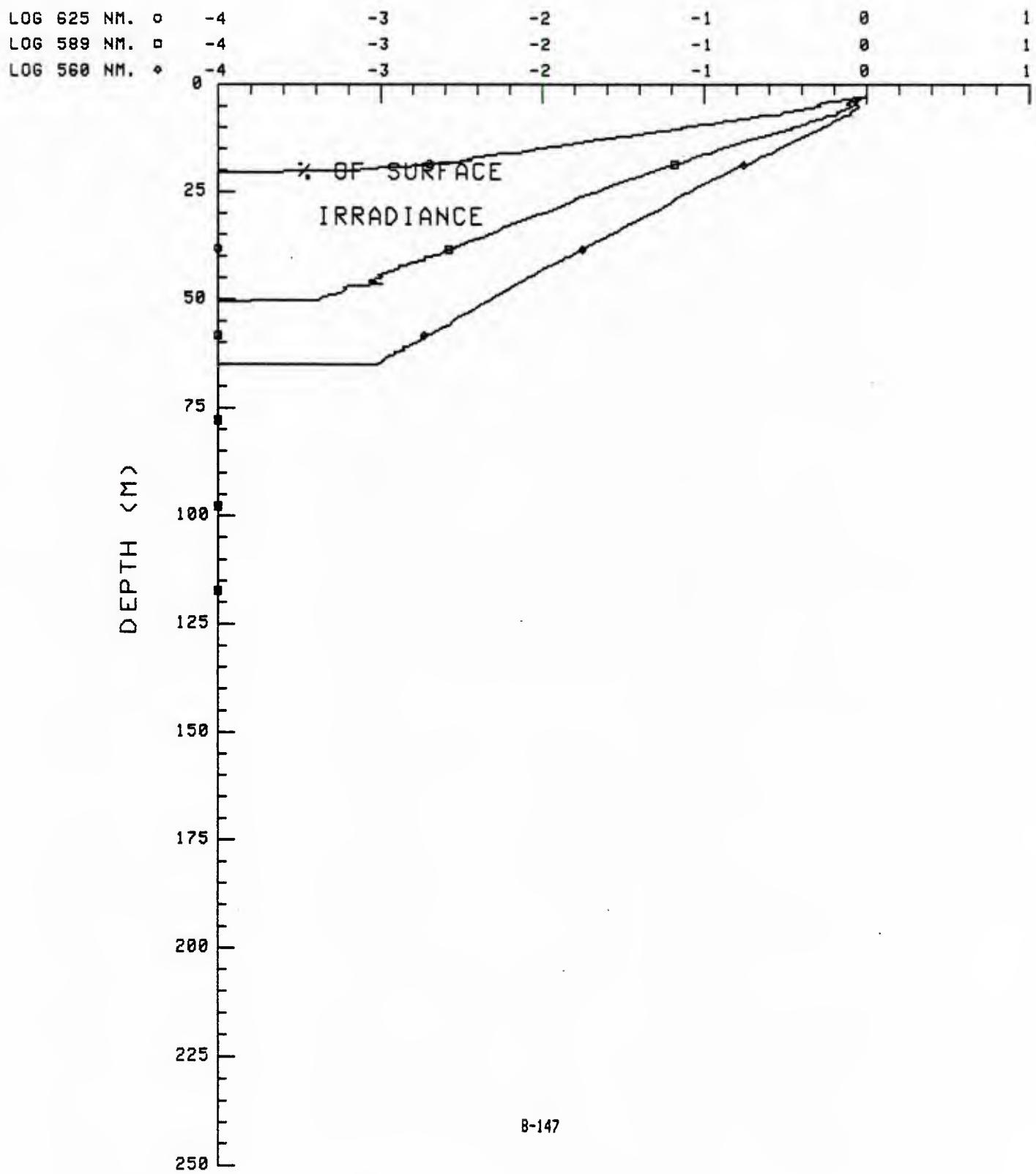
LOG 465 NM.	0	-4	-3	-2	-1	0	1
LOG 441 NM.	□	-4	-3	-2	-1	0	1
LOG 410 NM.	◊	-4	-3	-2	-1	0	1



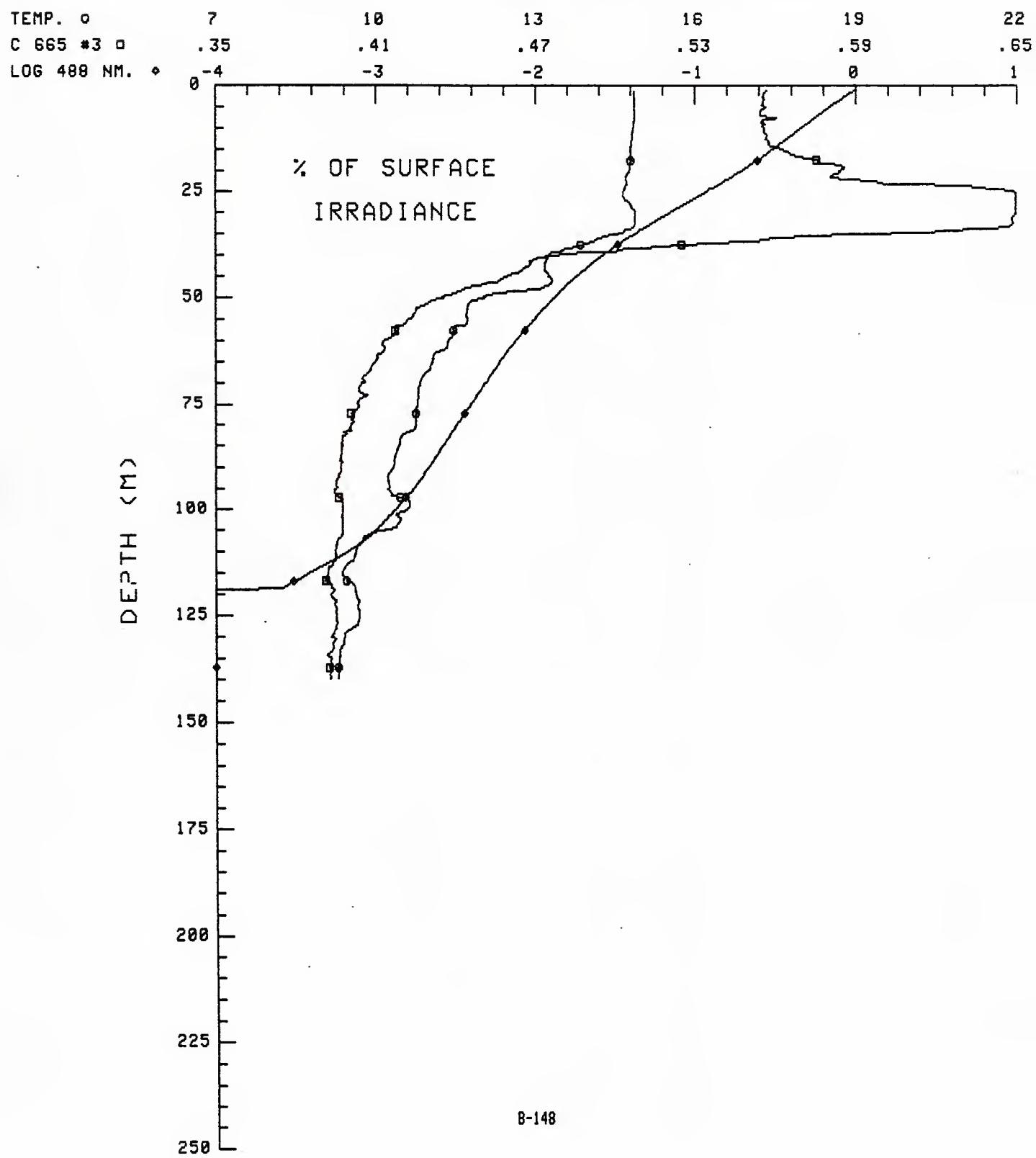
ODEX 3 STA 176 UP CAST 11-16-82 2328Z  
LATITUDE 34.5865N      LONGITUDE 123.3559W



ODEX 3 STA 176 UP CAST 11-16-82 2328Z  
LATITUDE 34.5865N      LONGITUDE 123.3559W

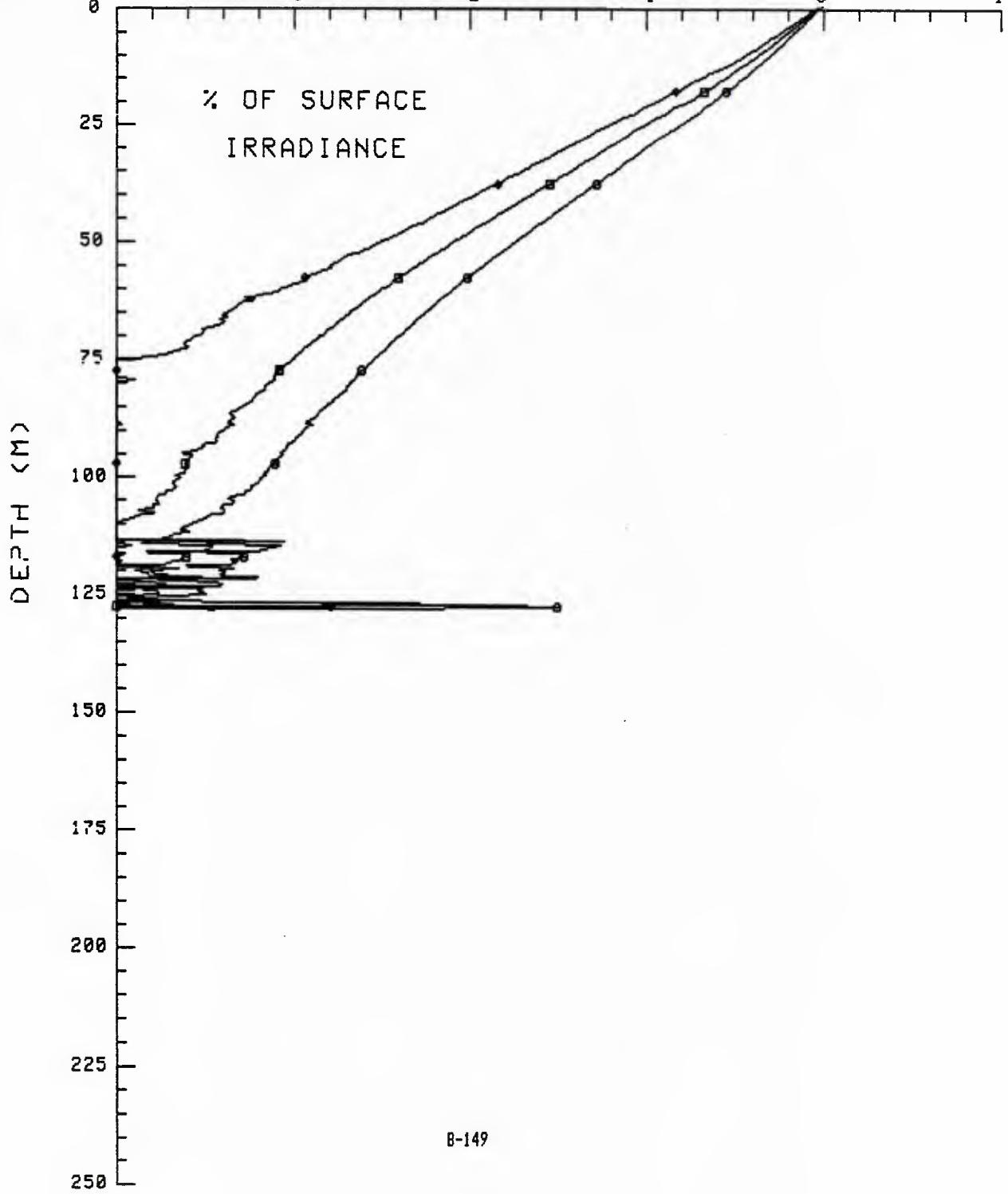


ODEX 3 STA 176 UP CAST 11-16-82 2328Z  
LATITUDE 34.5865N      LONGITUDE 123.3559W

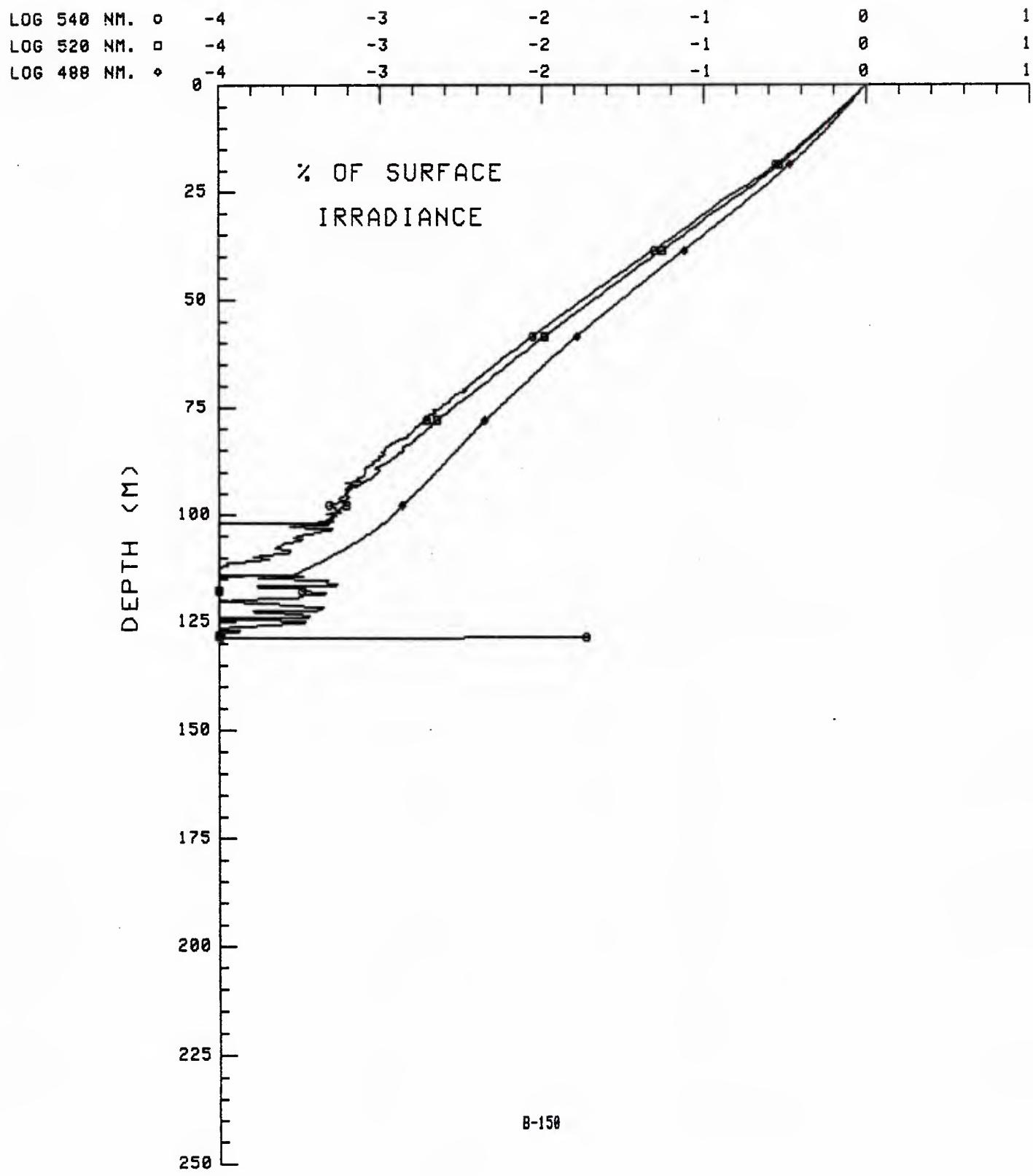


ODEX 3 STA 182 UP CAST 11-17-82 2026Z  
LATITUDE 35.5353N LONGITUDE 121.3916W

LOG 465 NM.	0	-4	-3	-2	-1	0	1
LOG 441 NM.	□	-4	-3	-2	-1	0	1
LOG 410 NM.	◊	-4	-3	-2	-1	0	1

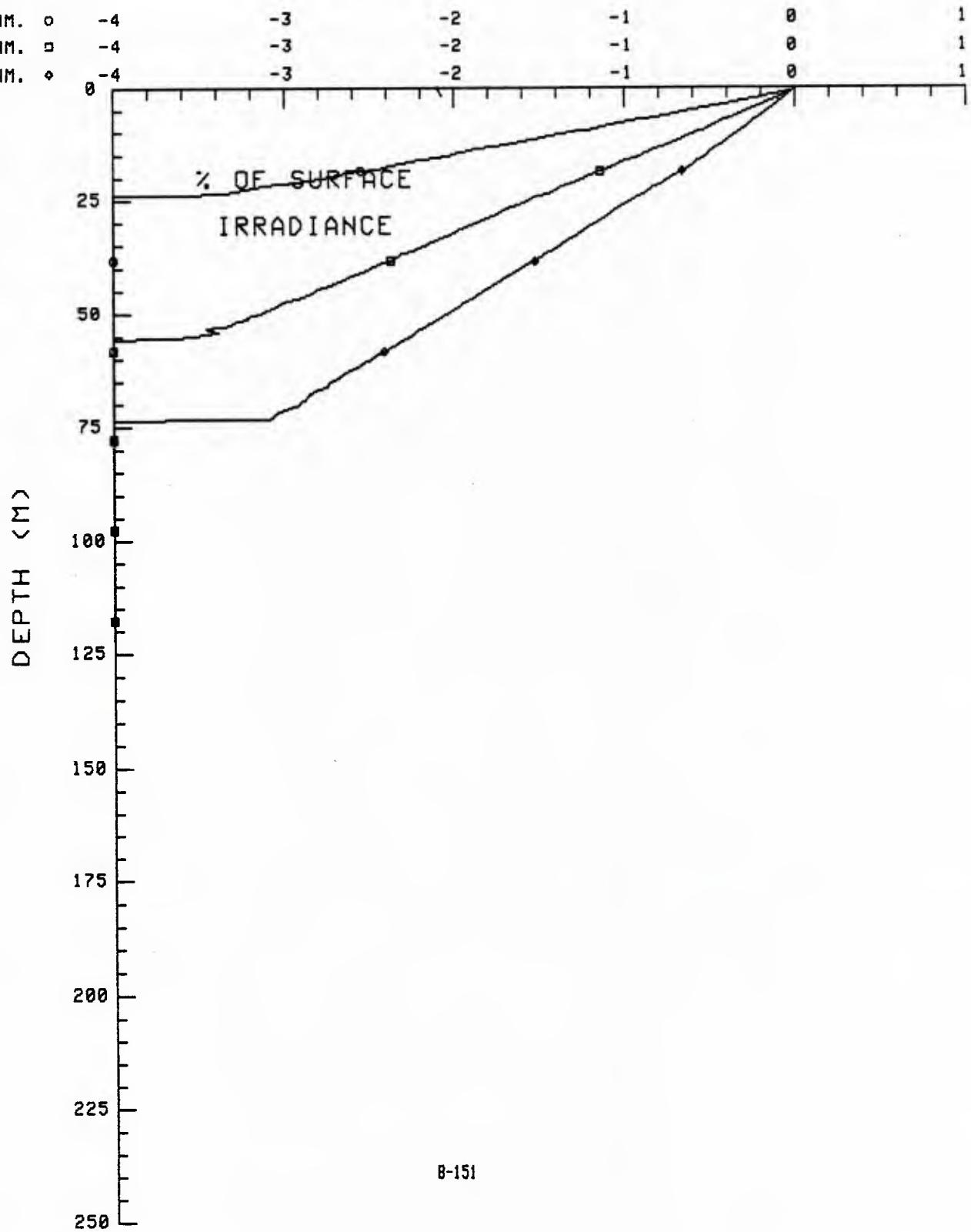


OODEX 3 STA 182 UP CAST 11-17-82 2026Z  
LATITUDE 35.5353N      LONGITUDE 121.3916W



ODEX 3 STA 182 UP CAST 11-17-82 20262  
LATITUDE 35.5353N      LONGITUDE 121.3916W

LOG 625 NM. o -4  
LOG 589 NM. □ -4  
LOG 560 NM. ♦ -4

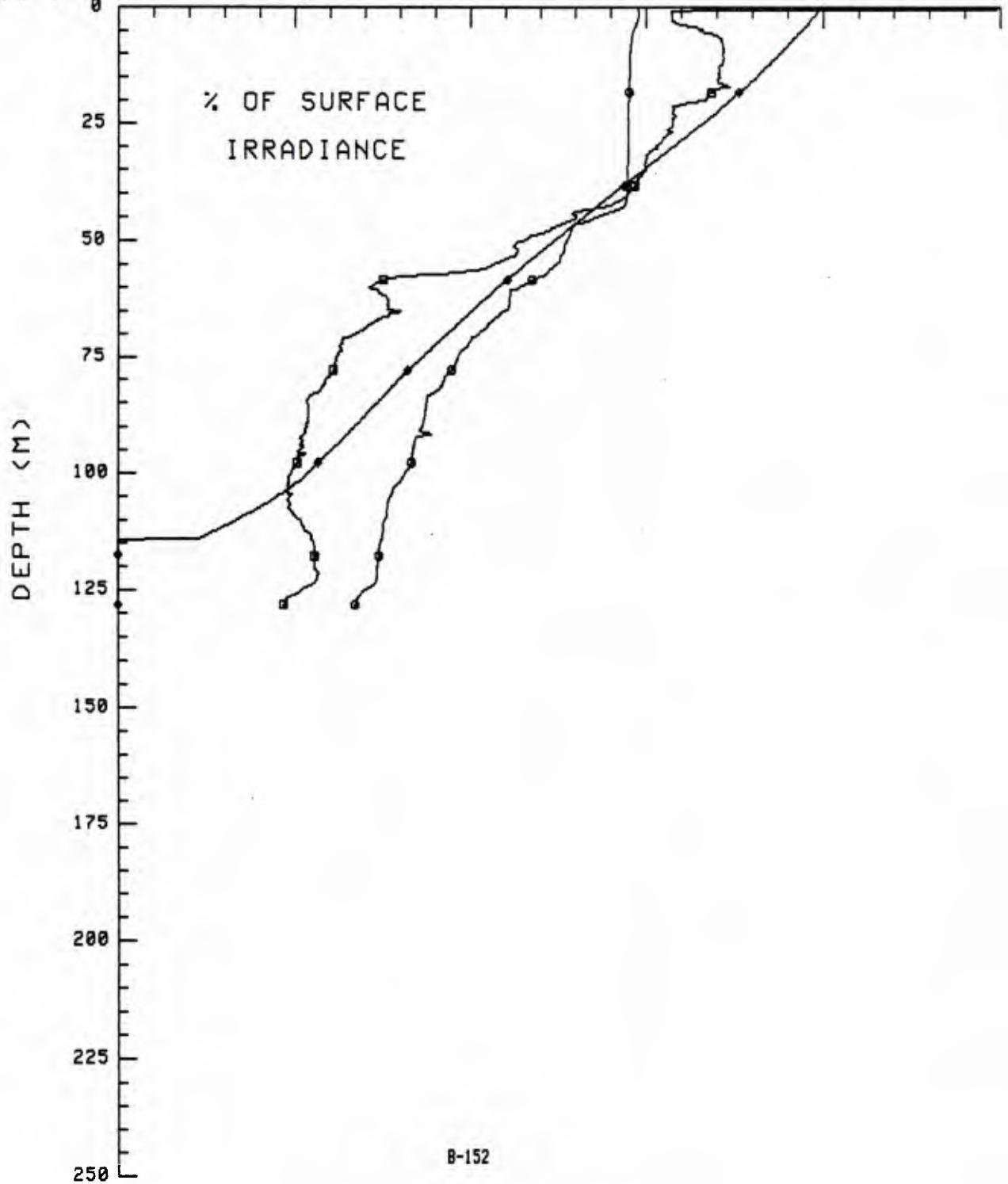


ODEX 3 STA 182 UP CAST 11-17-82 28262

LATITUDE 35.5353N

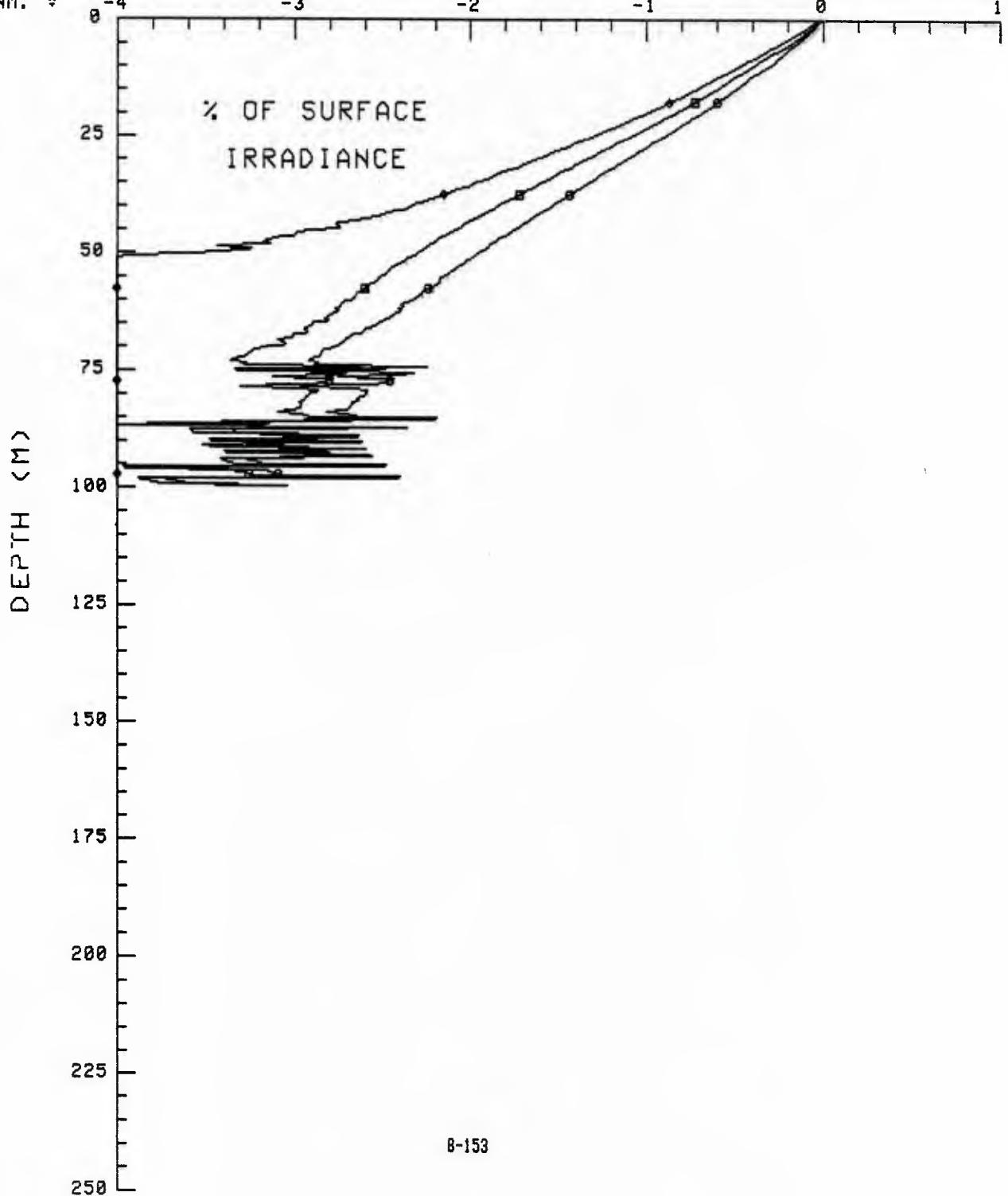
LONGITUDE 121.3916W

TEMP. °C 665 \*3      7      10      13      16      19      22  
LOG 488 NM.      .35      .41      .47      .53      .59      .65  
LOG 488 NM. ° 0      -4      -3      -2      -1      0      1

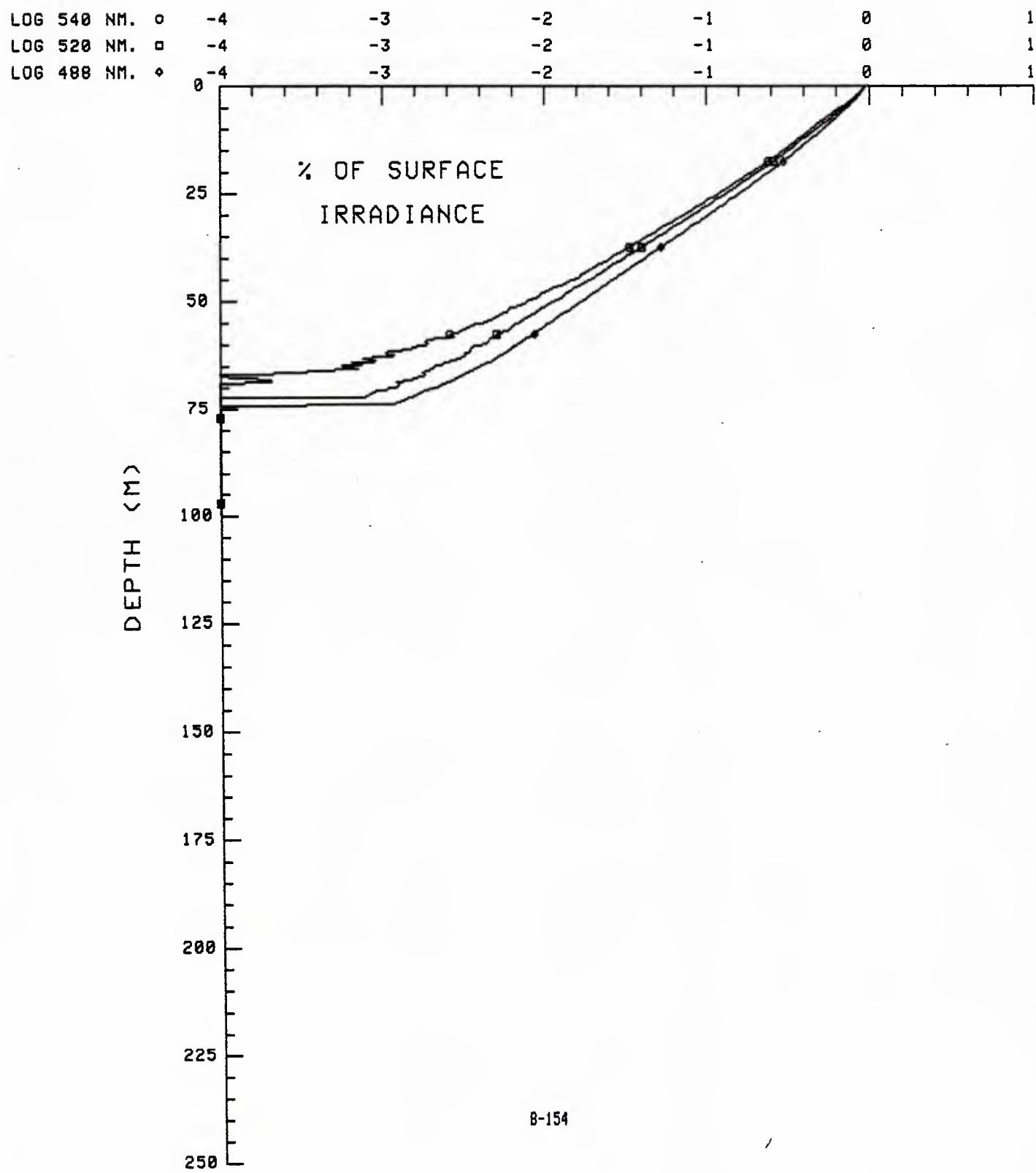


ODEX 3 STA 184 DN CAST 11-17-82 2339Z  
LATITUDE 35.5328N      LONGITUDE 121.3118W

LOG 465 NM. 0 -4 -3 -2 -1 0 1  
LOG 441 NM. □ -4 -3 -2 -1 0 1  
LOG 410 NM. ♦ -4 -3 -2 -1 0 1

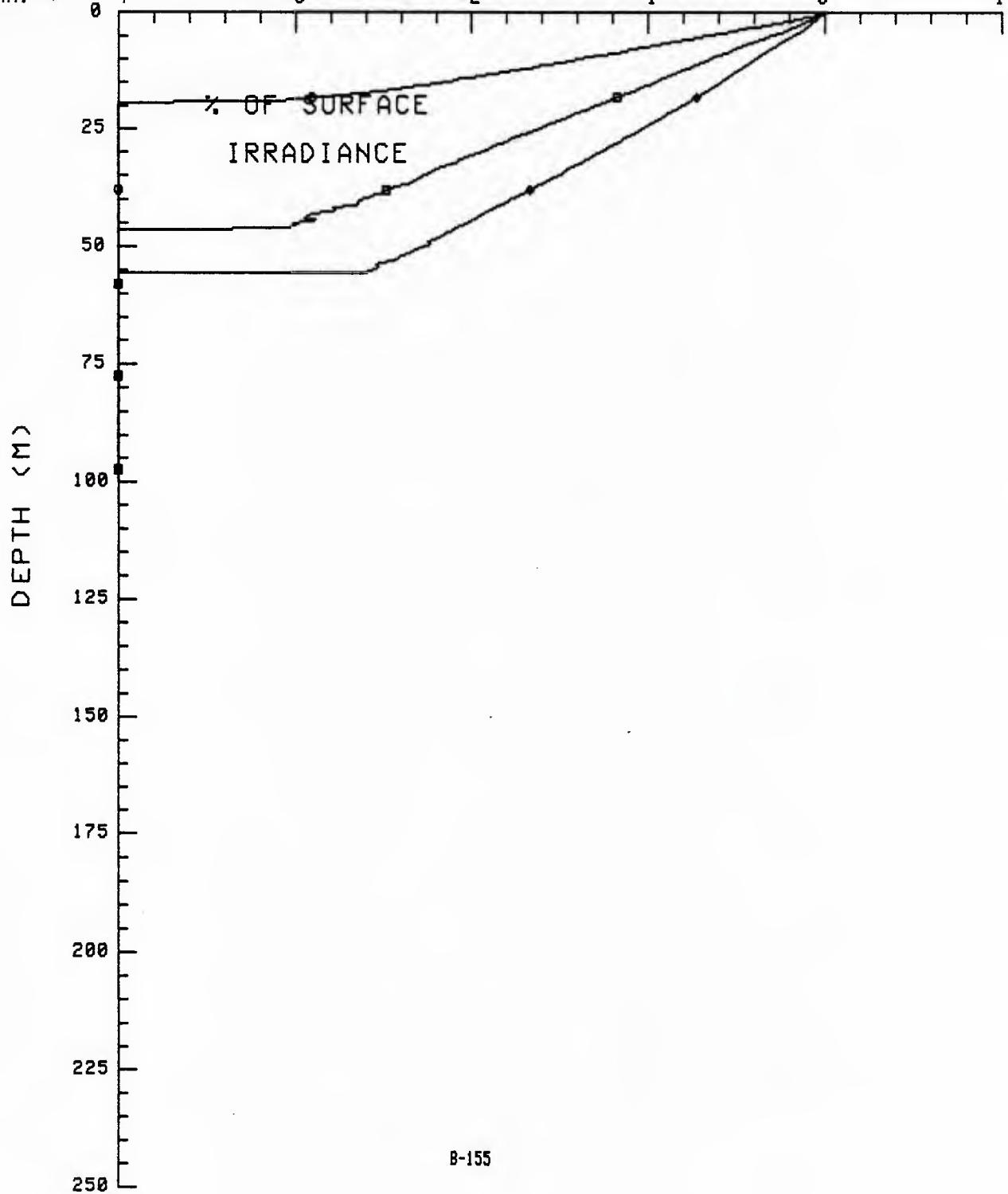


ODEX 3 STA 184 DN CAST 11-17-82 2339Z  
LATITUDE 35.5320N      LONGITUDE 121.3110W



ODEX 3 STA 184 DN CAST 11-17-82 2339Z  
LATITUDE 35.5320N      LONGITUDE 121.3110W

LOG 625 NM.	0	-4	-3	-2	-1	0	1
LOG 589 NM.	0	-4	-3	-2	-1	0	1
LOG 560 NM.	0	-4	-3	-2	-1	0	1

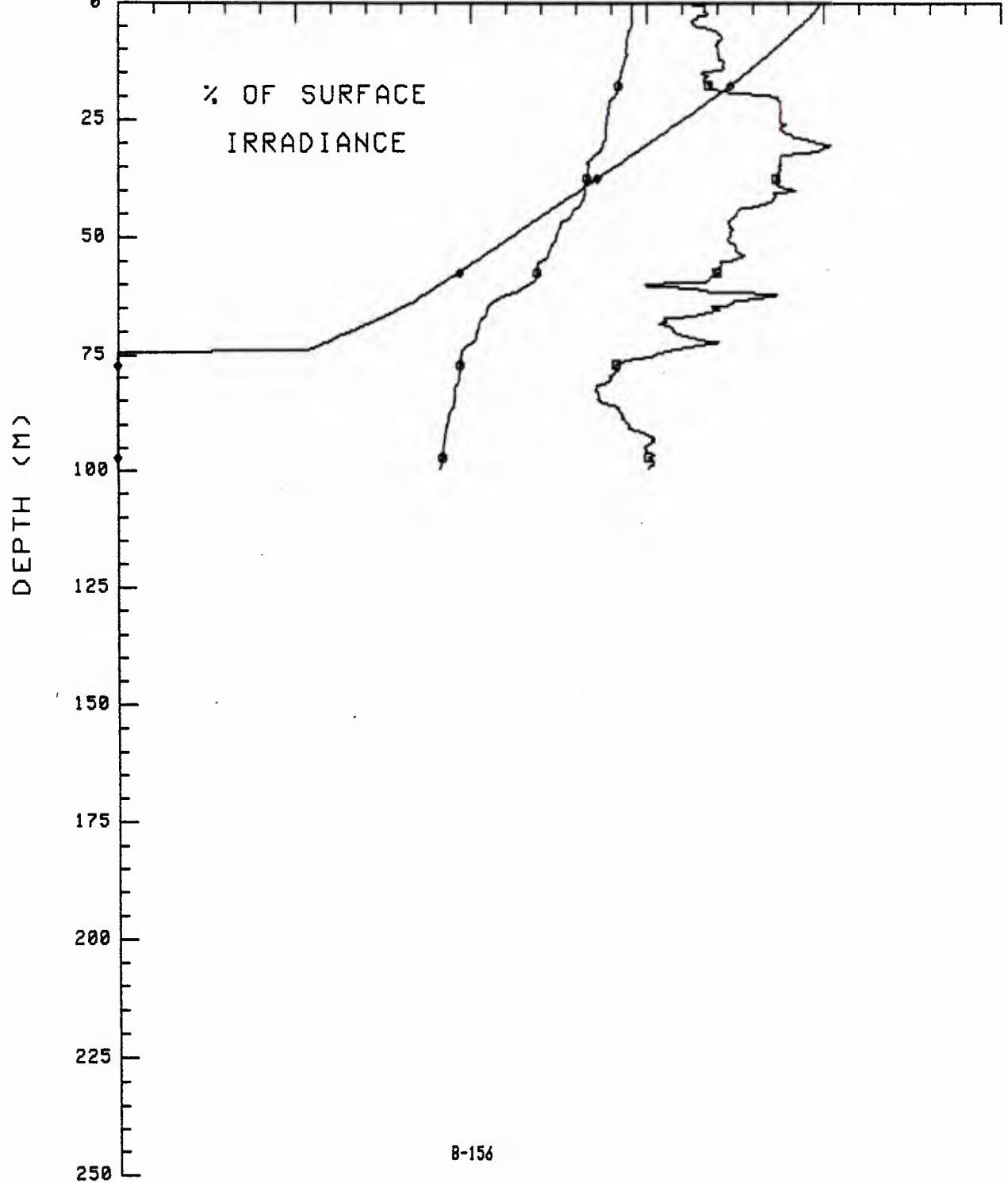


ODEX 3 STA 184 DN CAST 11-17-82 2339Z

LATITUDE 35.5320N

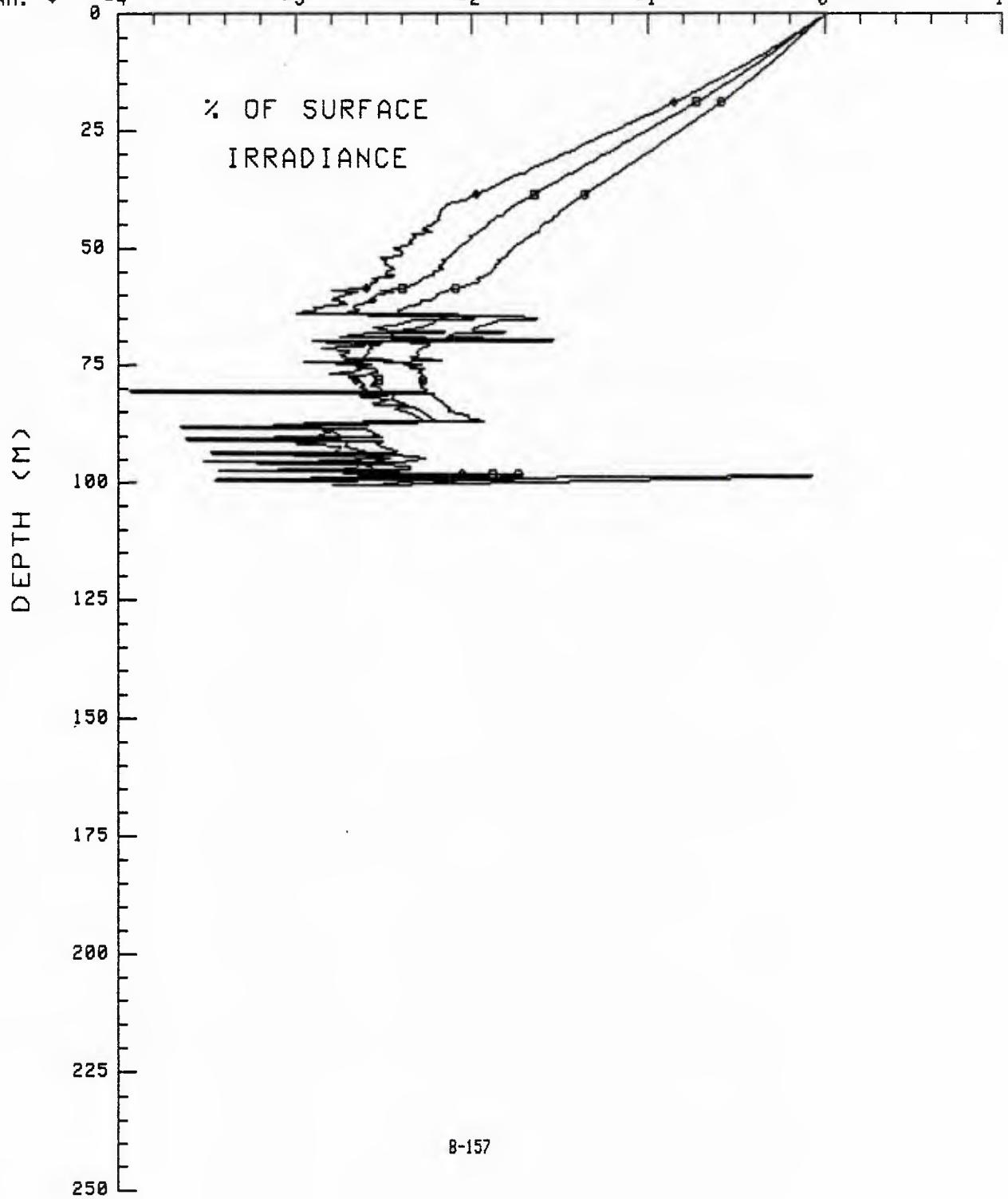
LONGITUDE 121.3110W

TEMP. °	7	10	13	16	19	22
C 665 #3 □	.35	.41	.47	.53	.59	.65
LOG 488 NM. °	-4	-3	-2	-1	0	1



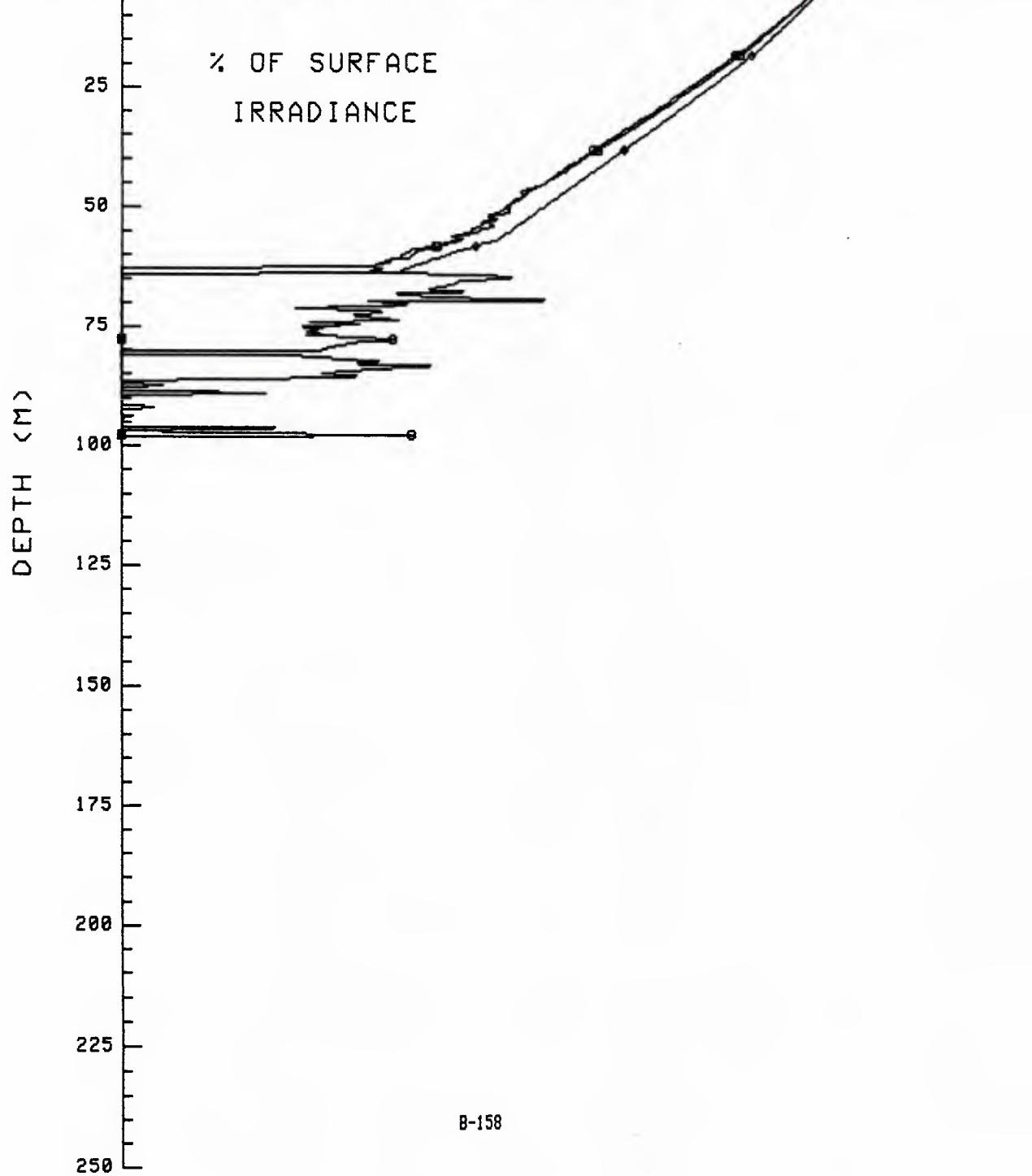
ODEX 3 STA 184 UP CAST 11-17-82 2352Z  
LATITUDE 35.5320N      LONGITUDE 121.3110W

LOG 465 NM.	0	-4	-3	-2	-1	0	1
LOG 441 NM.	□	-4	-3	-2	-1	0	1
LOG 410 NM.	♦	-4	-3	-2	-1	0	1

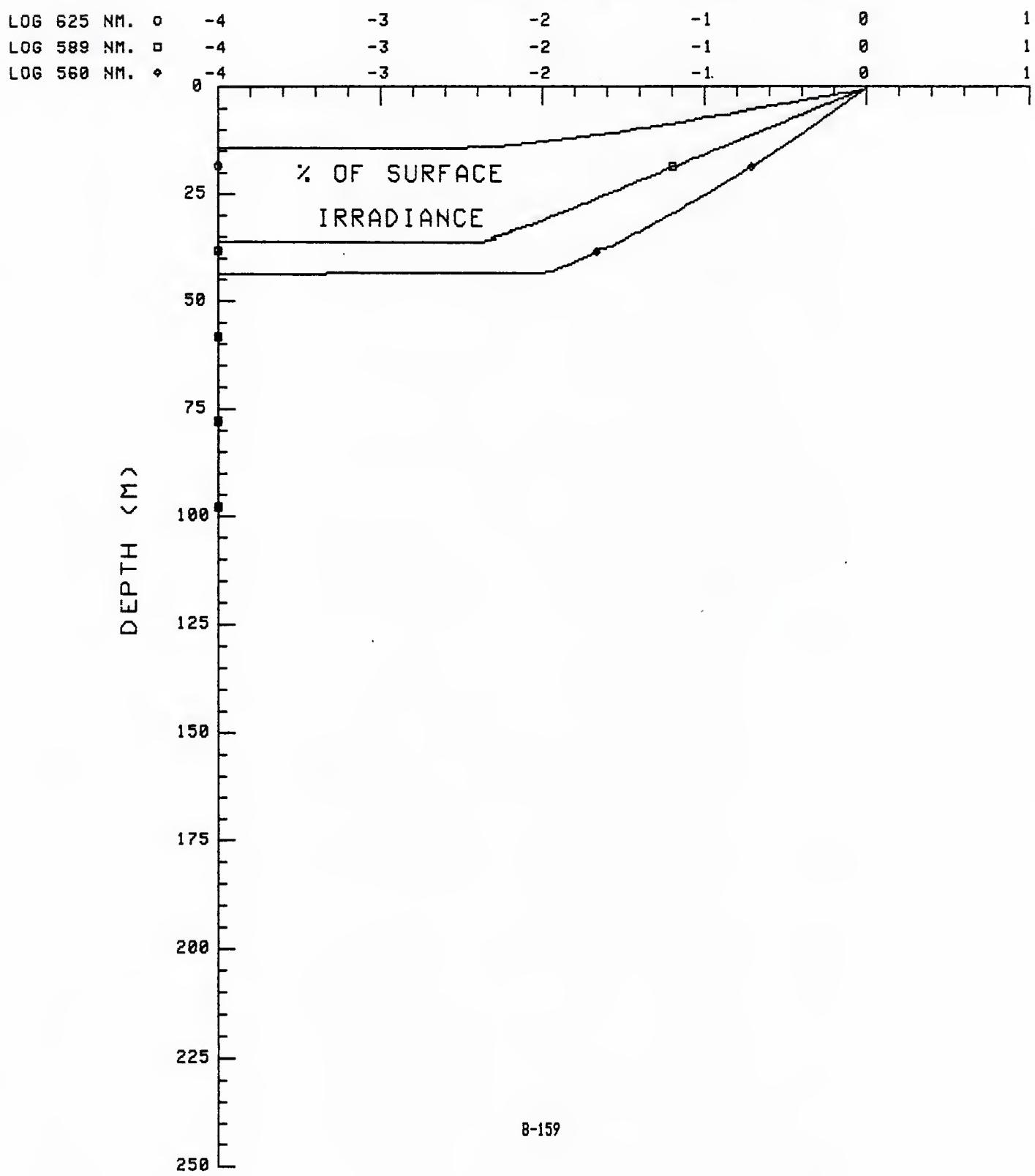


ODEX 3 STA 184 UP CAST 11-17-82 2352Z  
LATITUDE 35.5320N      LONGITUDE 121.3110W

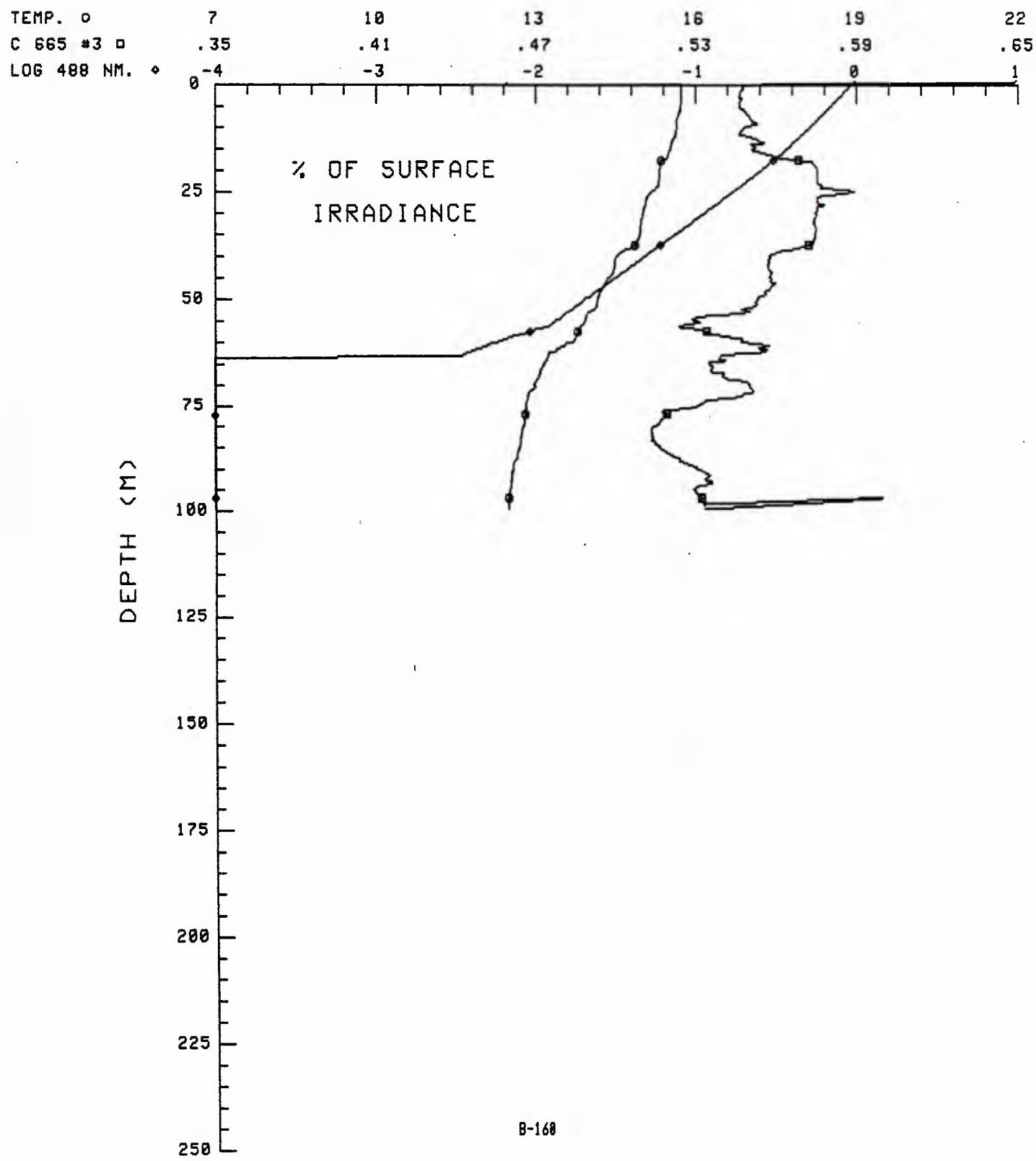
LOG 540 NM. ◉ -4 -3 -2 -1 0 1  
LOG 520 NM. □ -4 -3 -2 -1 0 1  
LOG 488 NM. ◆ -4 -3 -2 -1 0 1



ODEX 3 STA 184 UP CAST 11-17-82 2352Z  
LATITUDE 35.5320N      LONGITUDE 121.3110W



ODEX 3 STA 184 UP CAST 11-17-82 2352Z  
LATITUDE 35.5320N      LONGITUDE 121.3110W

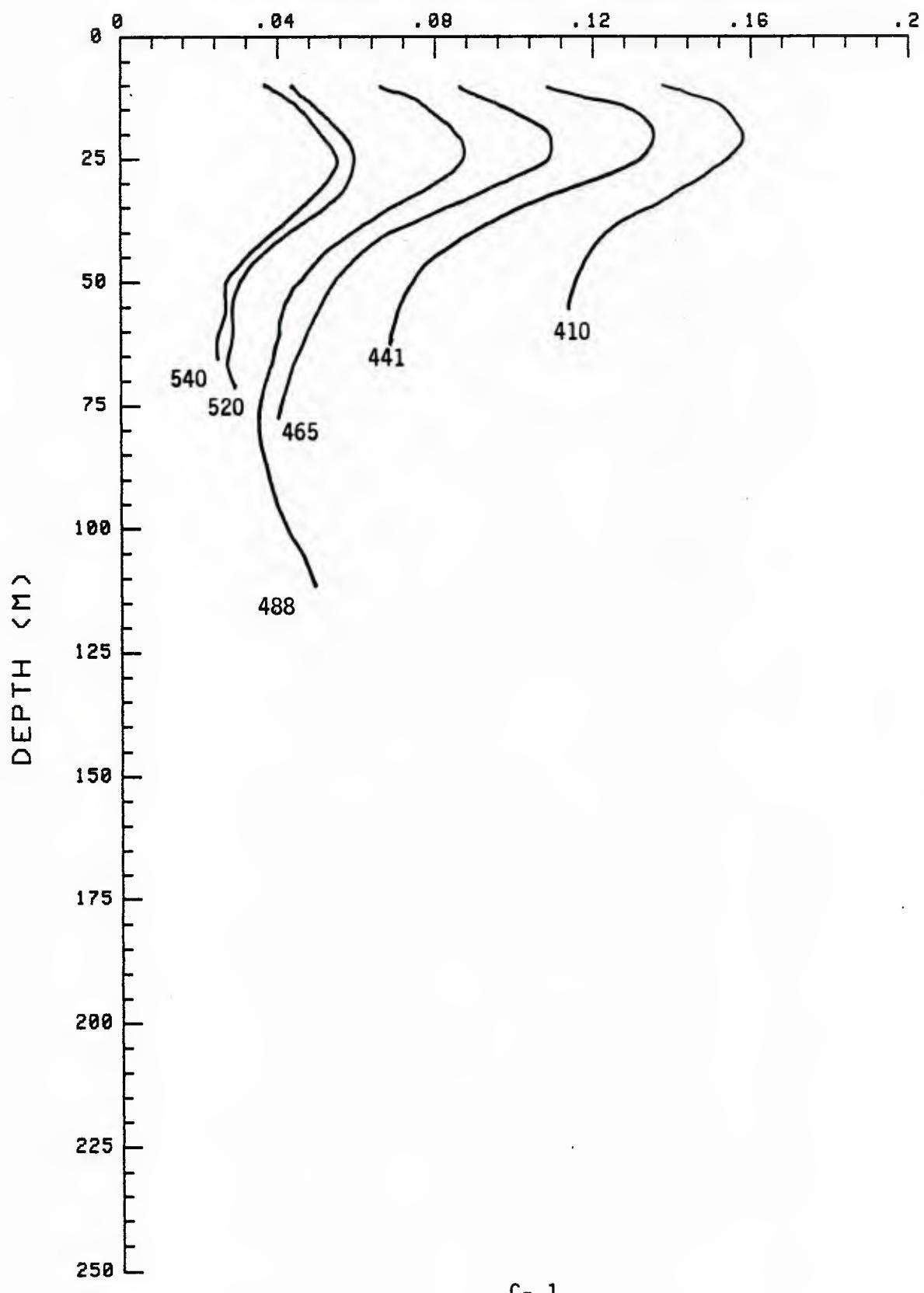


ODEX 3 STA 7 DN CAST

LATITUDE 35.1940N

LONGITUDE 121.3800W

TOTAL DIFFUSE ATTENUATION - WATER ATTENUATION

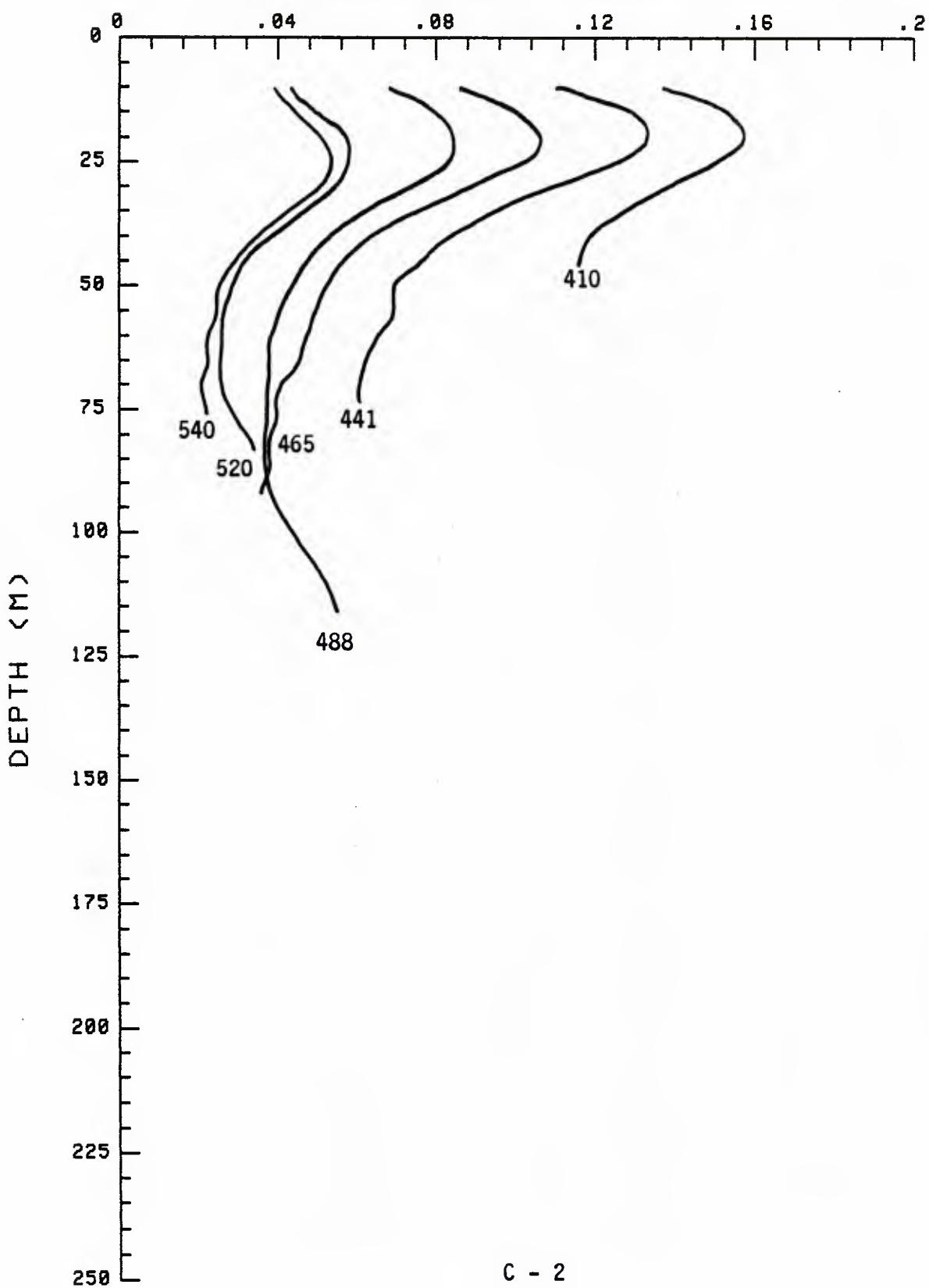


DDEX 3 STA 7 UP CAST

LATITUDE 35.1948N

LONGITUDE 121.3888W

TOTAL DIFFUSE ATTENUATION - WATER ATTENUATION

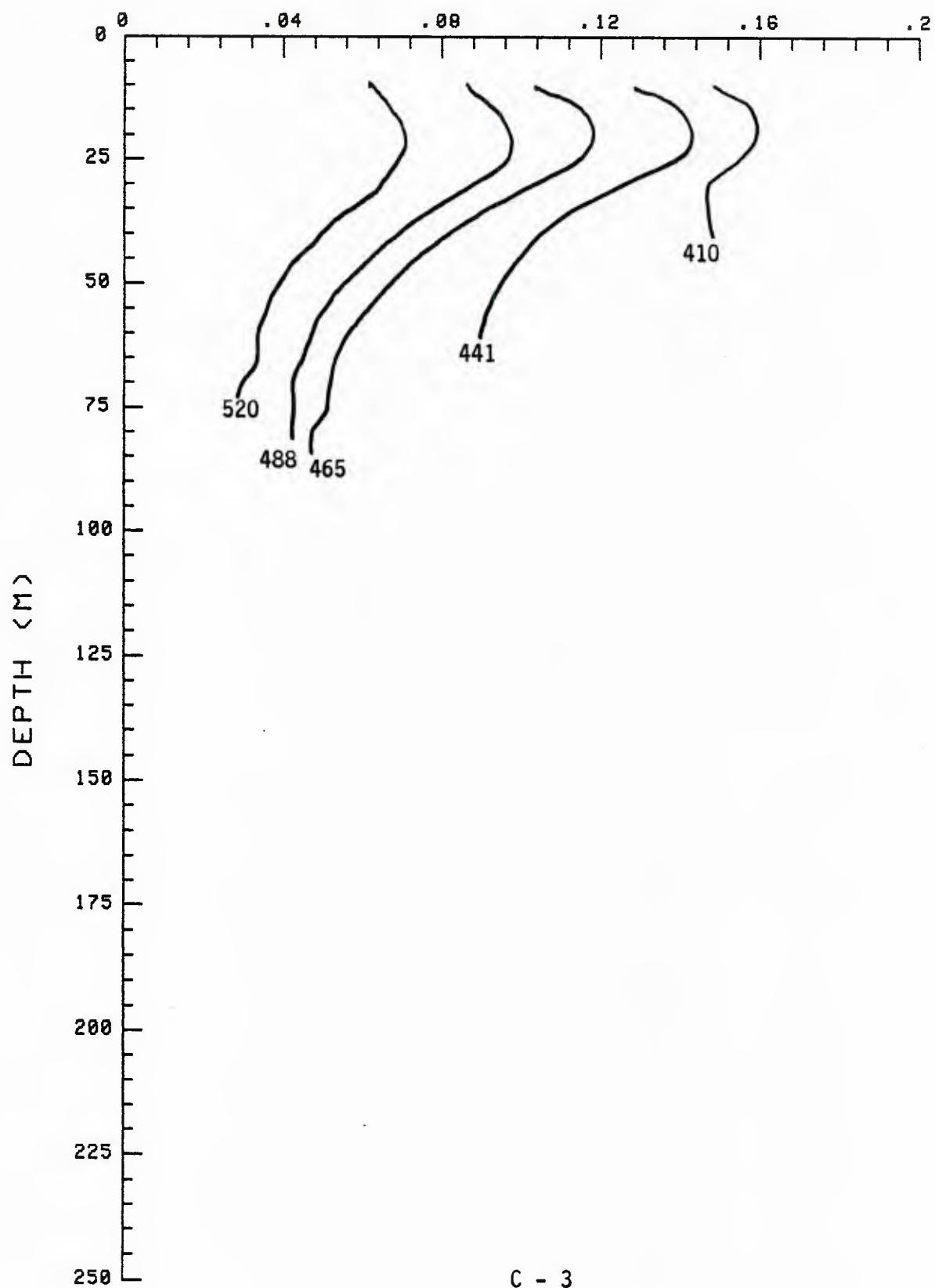


ODEX 3 STA 9 10-12-82 2314Z DN CAST

LATITUDE 35.1910N

LONGITUDE 121.0680W

TOTAL DIFFUSE ATTENUATION - WATER ATTENUATION

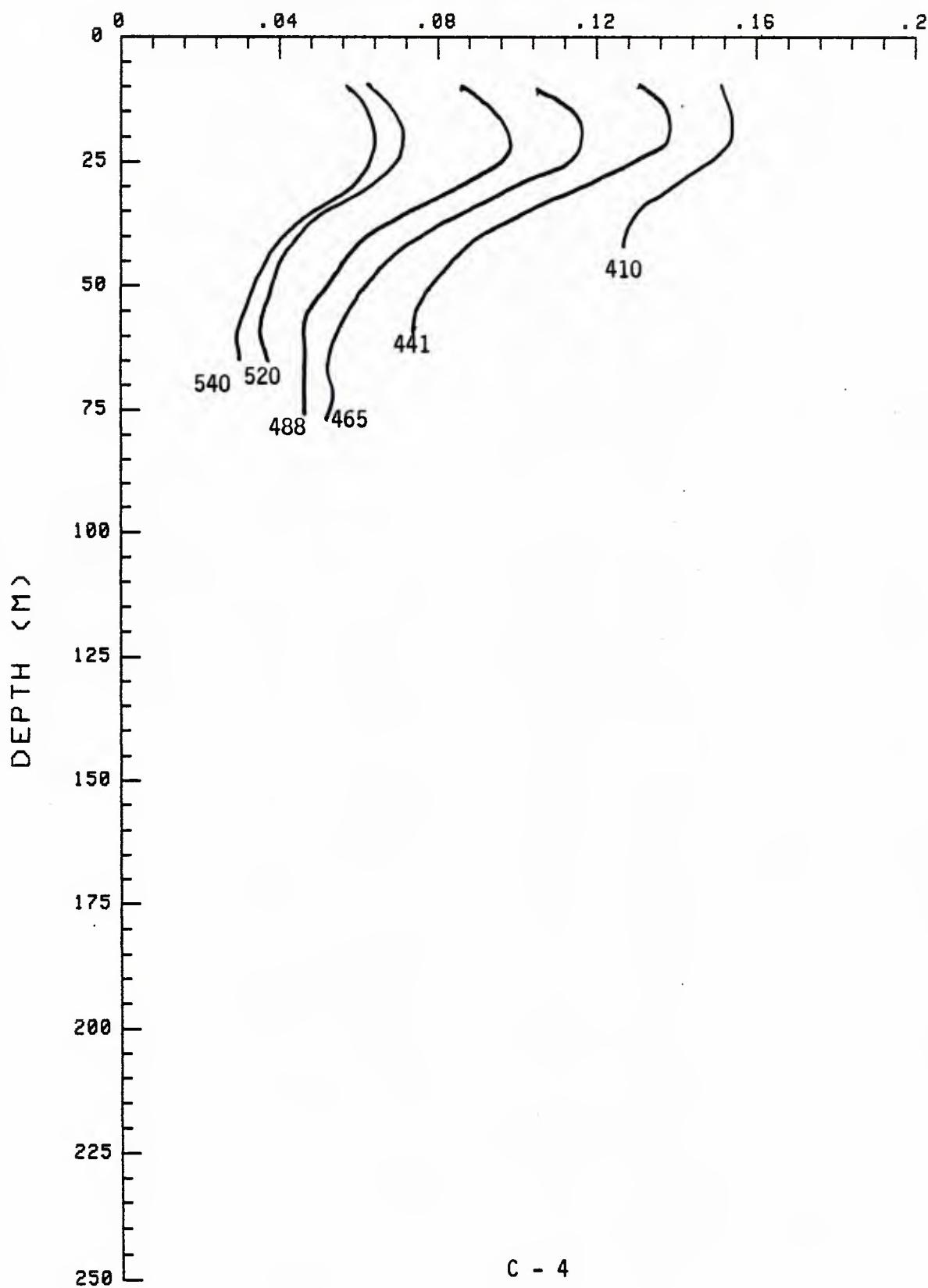


ODEX 3 STA 9 10-12-82 23452 UP CAST

LATITUDE 35.1910N

LONGITUDE 121.0680W

TOTAL DIFFUSE ATTENUATION - WATER ATTENUATION



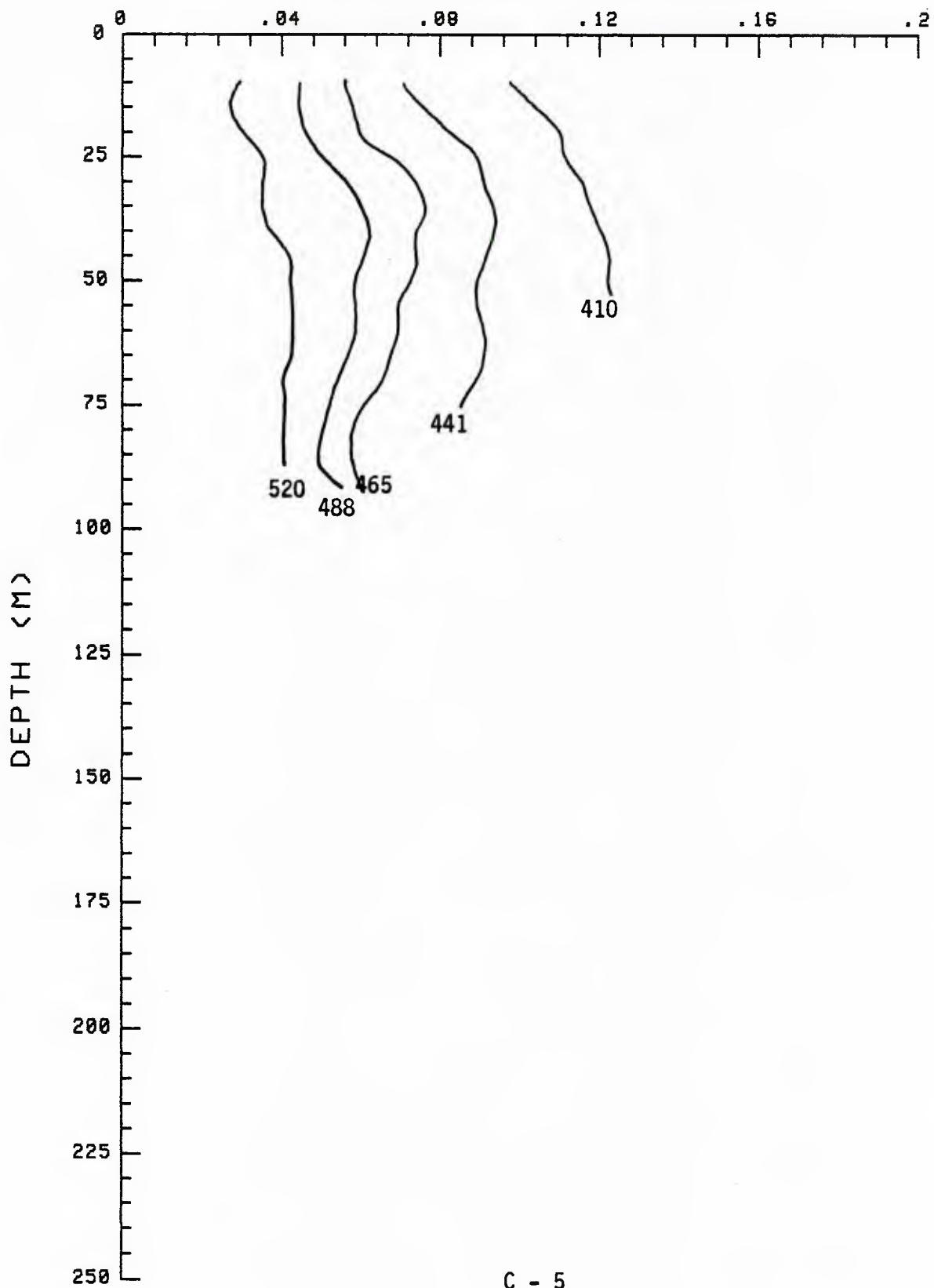
C - 4

ODEX 3 STA 14 10-14-82 2240Z DN CAST

LATITUDE 34.5890N

LONGITUDE 121.1303W

TOTAL DIFFUSE ATTENUATION - WATER ATTENUATION

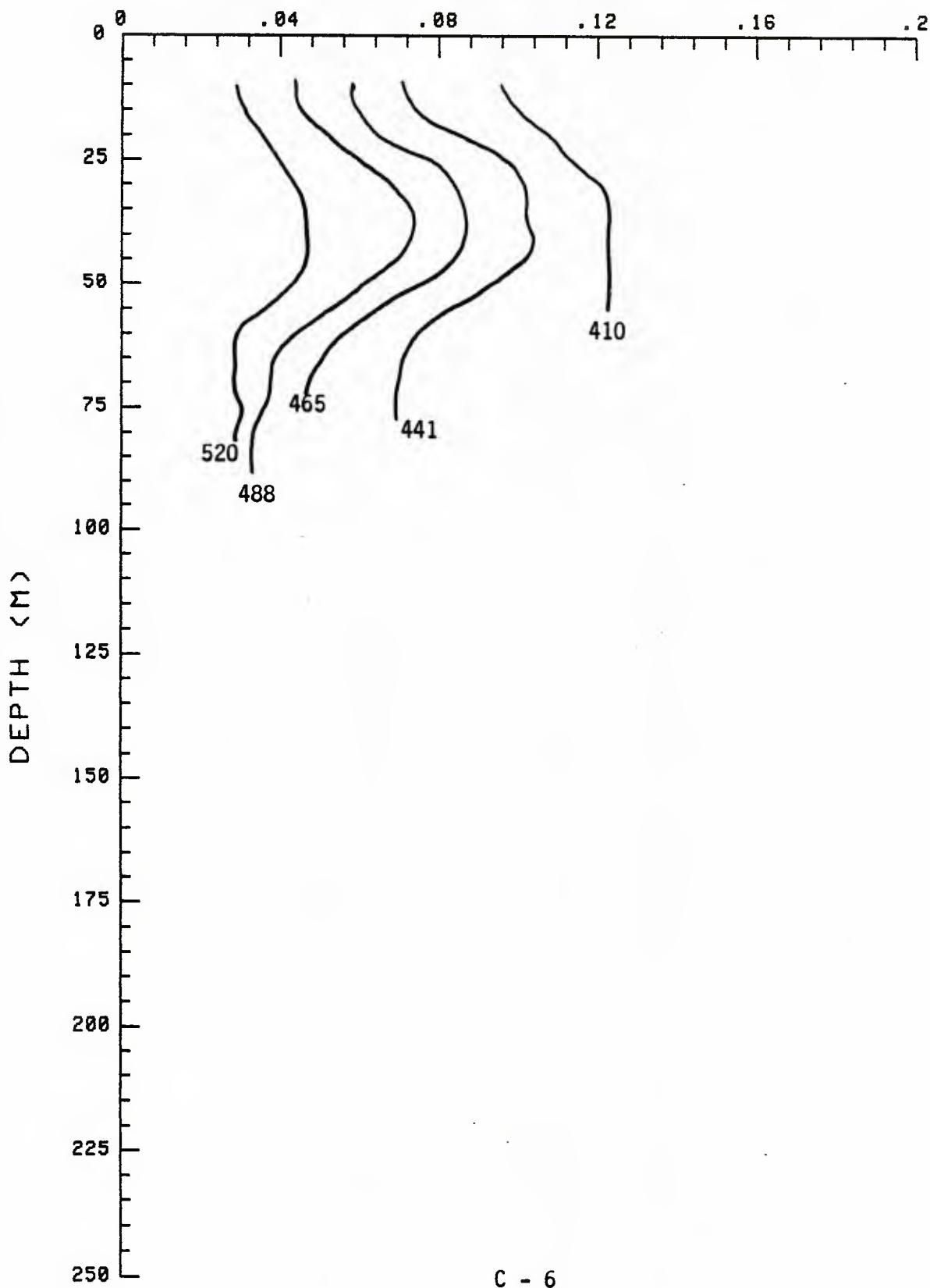


ODEX 3 STA 19 18-15-82 17052 DN CAST

LATITUDE 34.5870N

LONGITUDE 122.4250W

TOTAL DIFFUSE ATTENUATION - WATER ATTENUATION

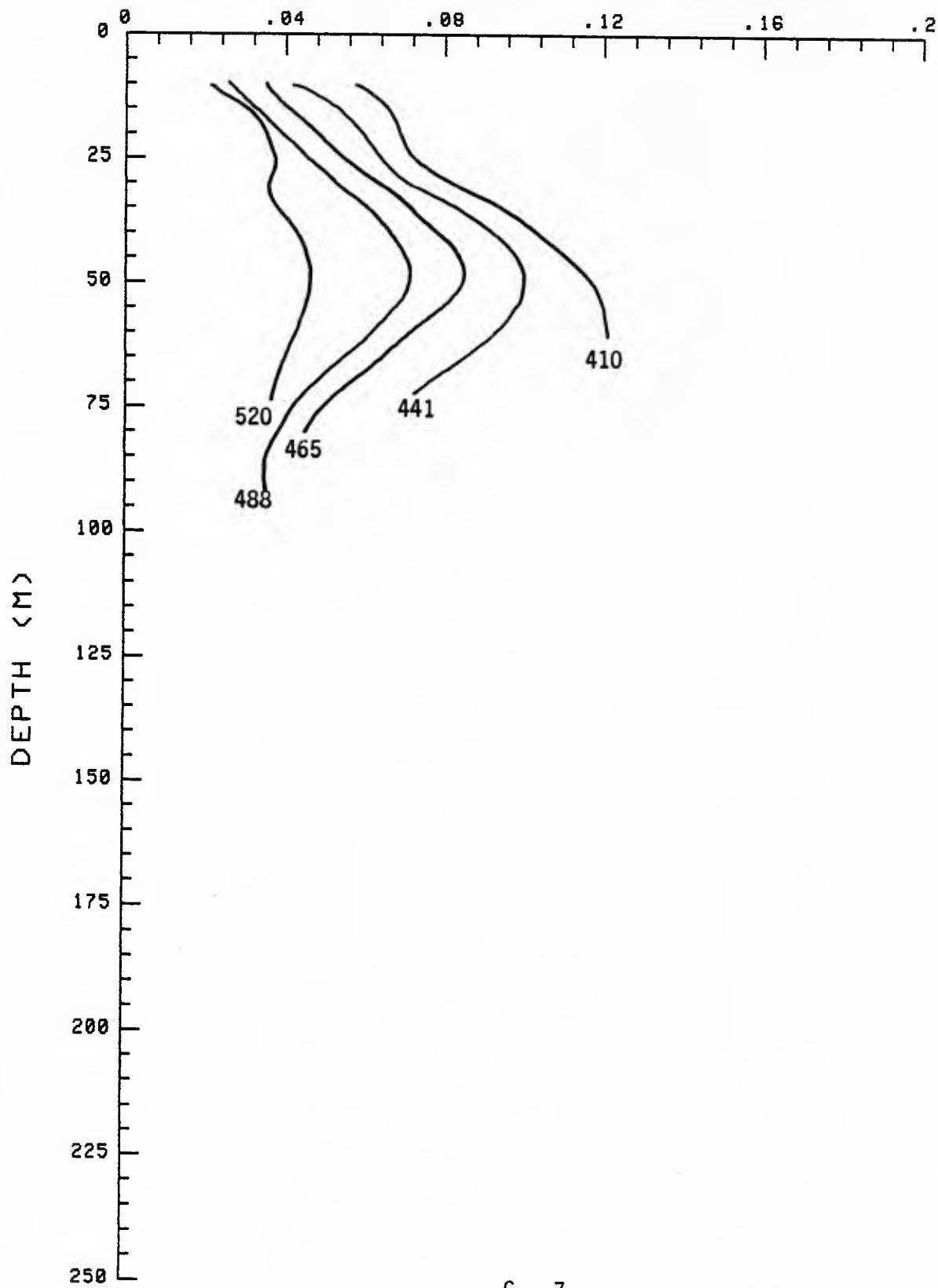


ODEX 3 STA 21 DN CAST 10-16-82 00462

LATITUDE 34.5866N

LONGITUDE 123.1436W

TOTAL DIFFUSE ATTENUATION - WATER ATTENUATION

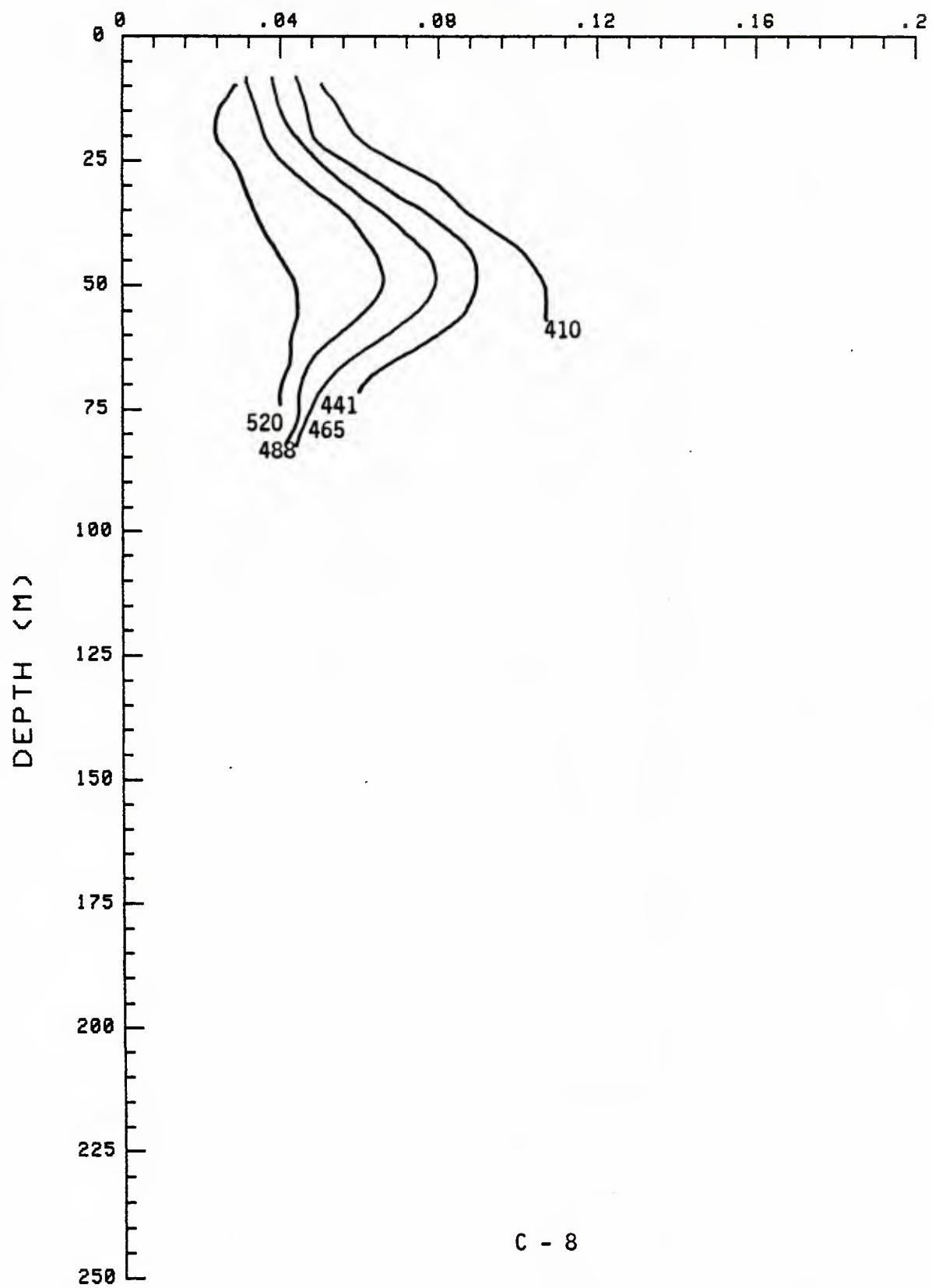


ODEX 3 STA 21 UP CAST 10-16-82 00582

LATITUDE 34.5864N

LONGITUDE 123.1436W

TOTAL DIFFUSE ATTENUATION - WATER ATTENUATION

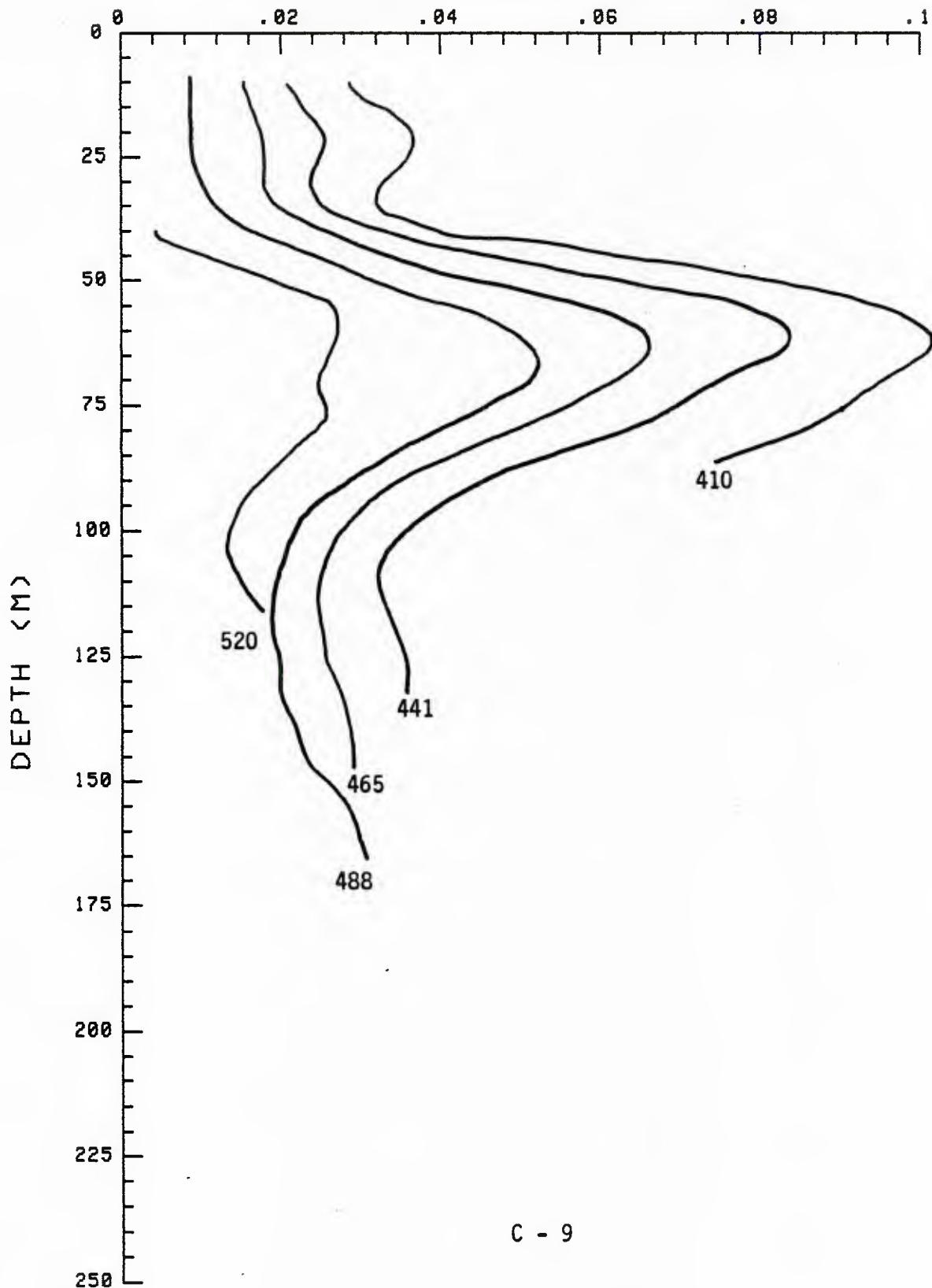


ODEX 3 STA 25 UP CAST 10-16-82 2134Z

LATITUDE 35.0965N

LONGITUDE 124.4262W

TOTAL DIFFUSE ATTENUATION - WATER ATTENUATION



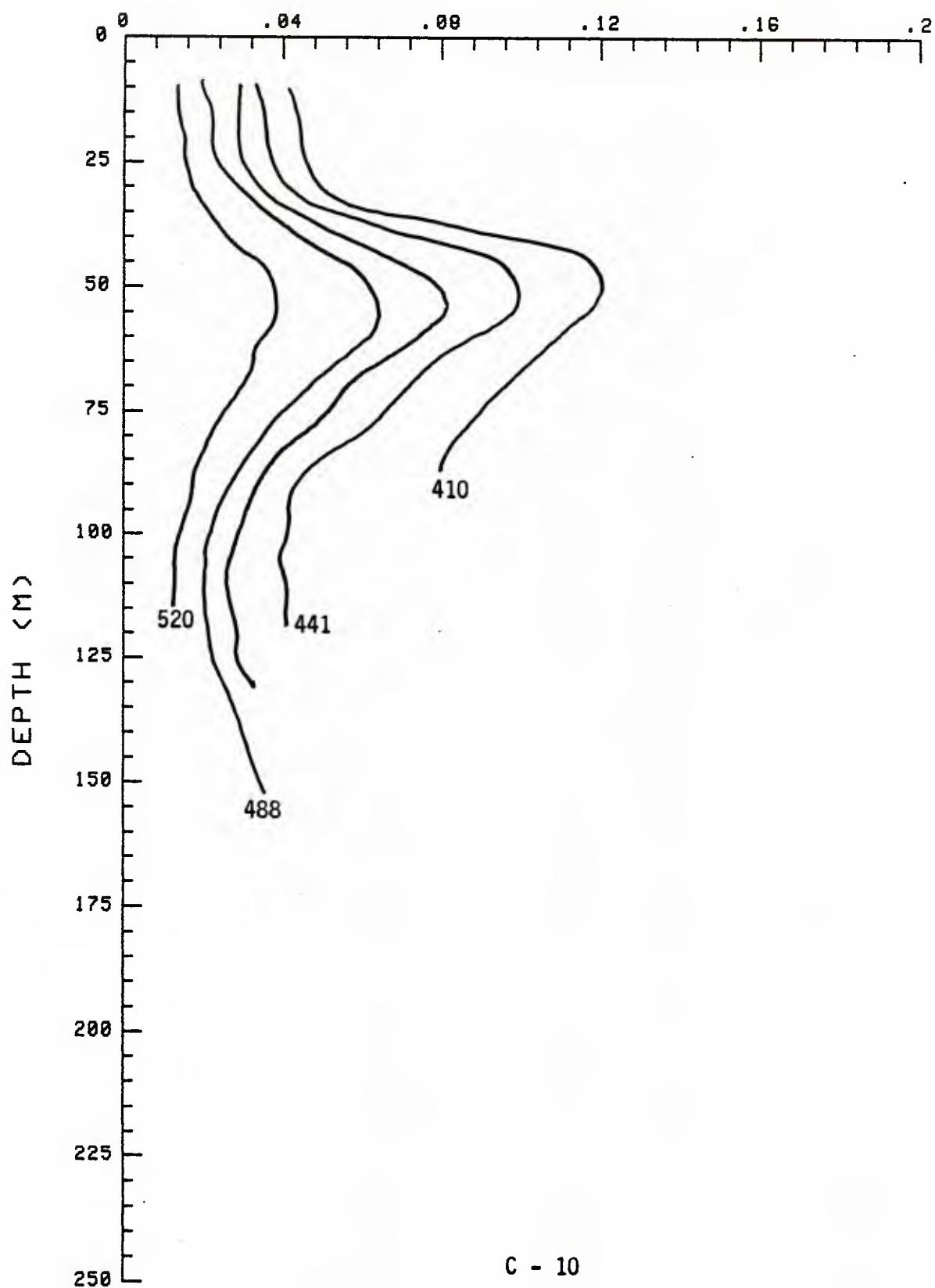
C - 9

ODEX 3 STA 38 DN CAST 10-17-82 1830Z

LATITUDE 34.2977N

LONGITUDE 123.4002W

TOTAL DIFFUSE ATTENUATION - WATER ATTENUATION



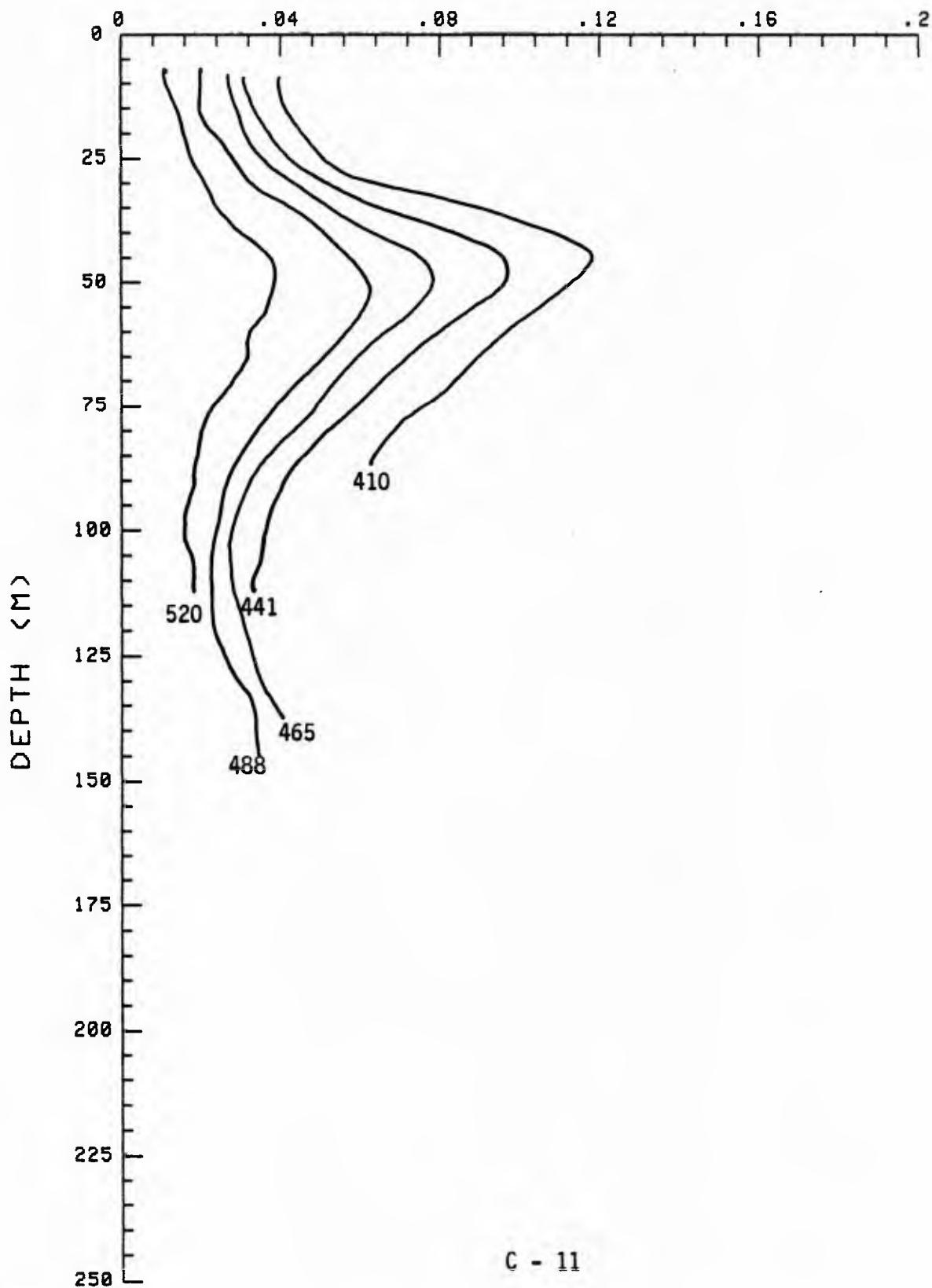
C - 10

ODEX 3 STA 30 UP CAST 10-17-82 18

LATITUDE 34.2857N

LONGITUDE 123.4038W

TOTAL DIFFUSE ATTENUATION - WATER ATTENUATION

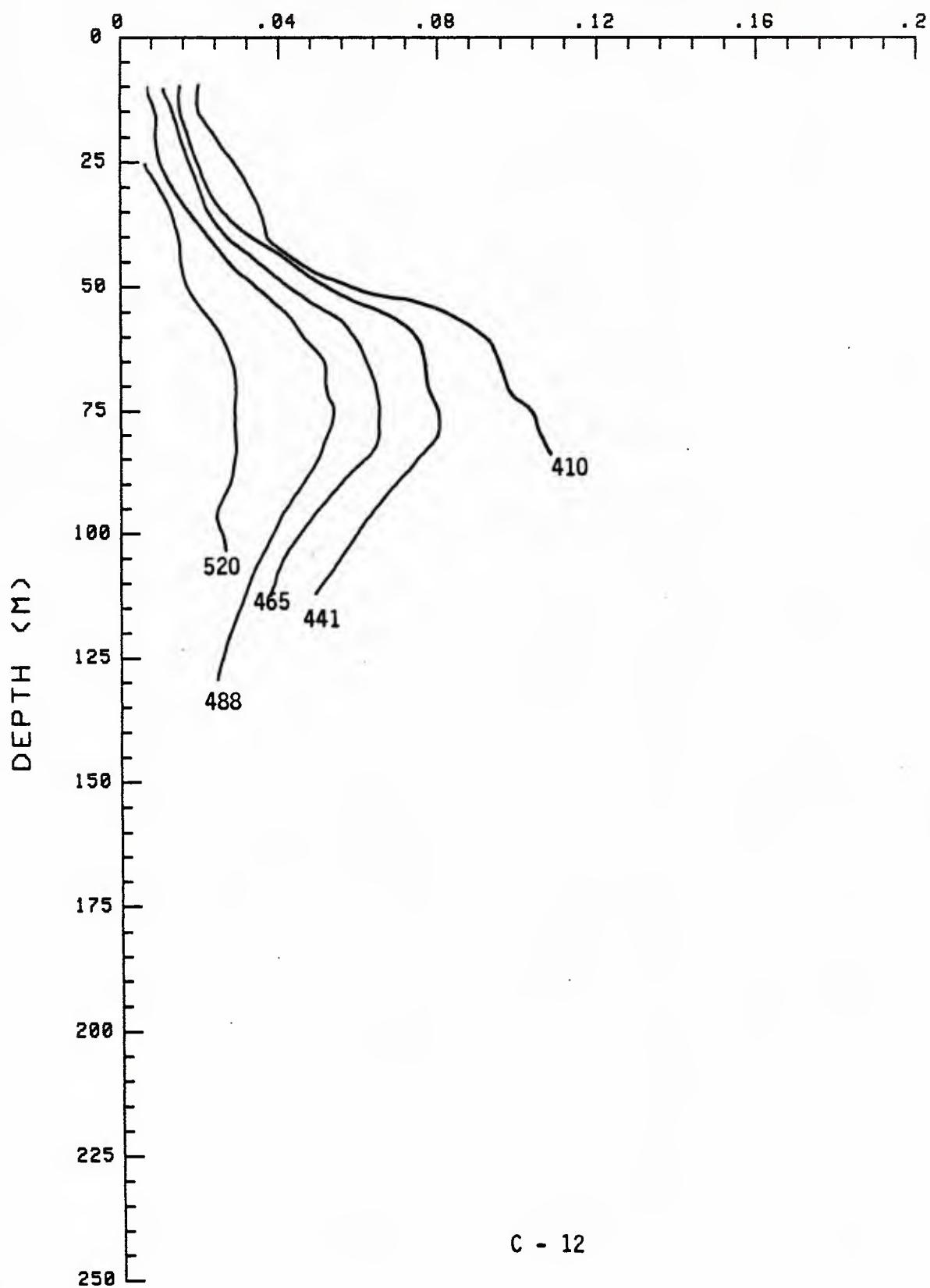


ODEX 3 STA 37 DN CAST 10-18-82 1905Z

LATITUDE 34.294N

LONGITUDE 125.409W

TOTAL DIFFUSE ATTENUATION - WATER ATTENUATION

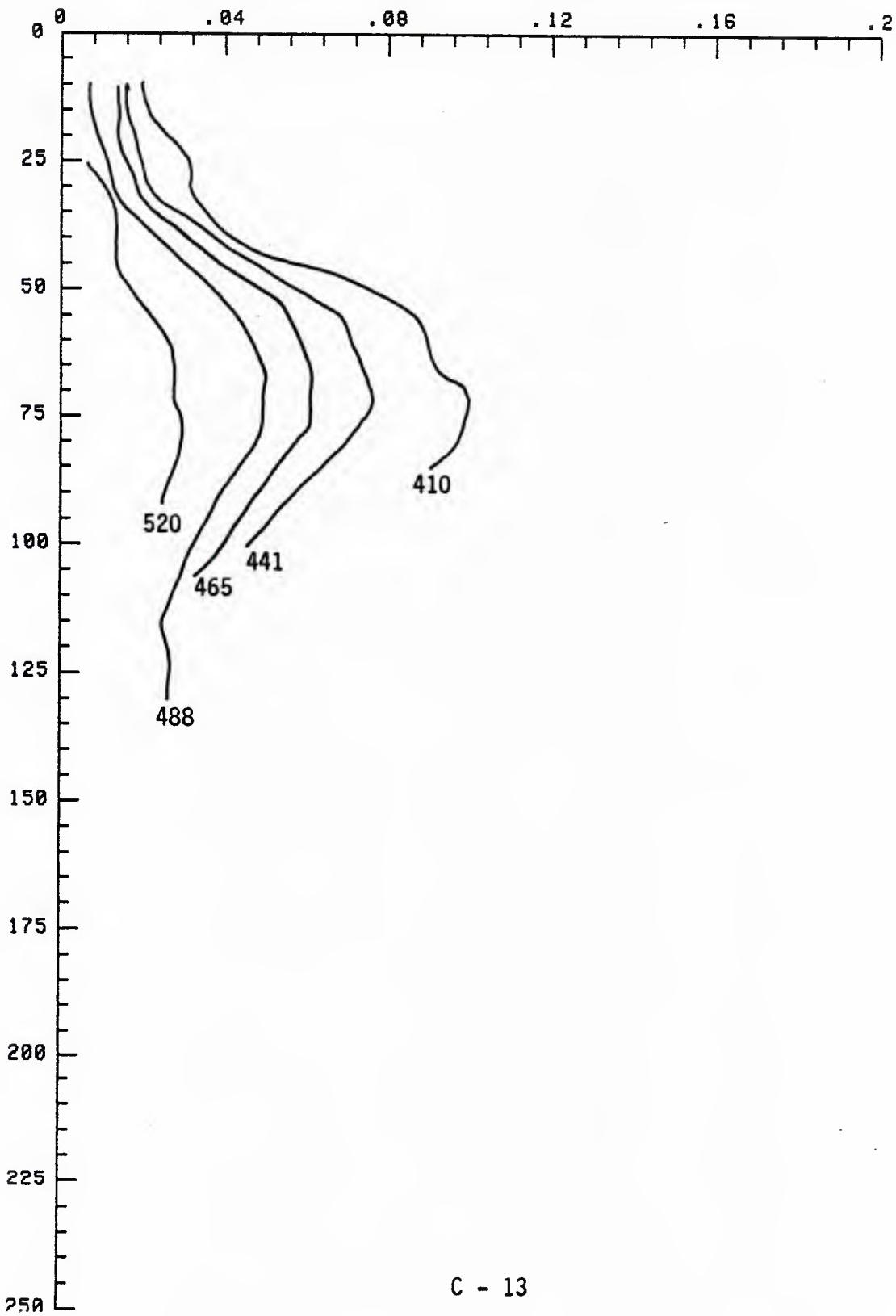


ODEX 3 STA 37 UP CAST 10-18-82 1933Z

LATITUDE 34.2938N

LONGITUDE 125.4098W

TOTAL DIFFUSE ATTENUATION - WATER ATTENUATION

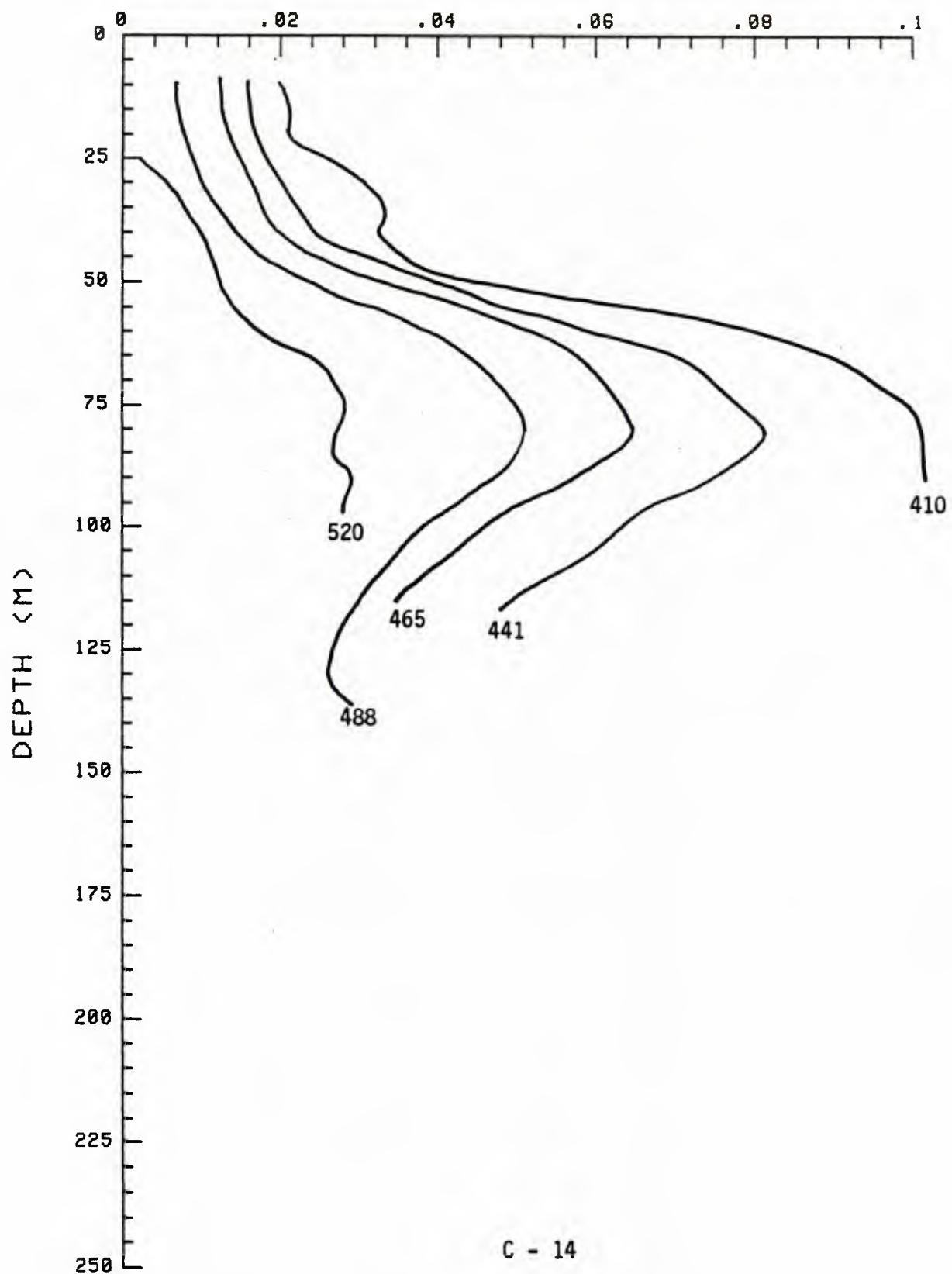


ODEX 3 STA 38 DN CAST 10-18-82 2125Z

LATITUDE 34.9990N

LONGITUDE 125.4549W

TOTAL DIFFUSE ATTENUATION - WATER ATTENUATION



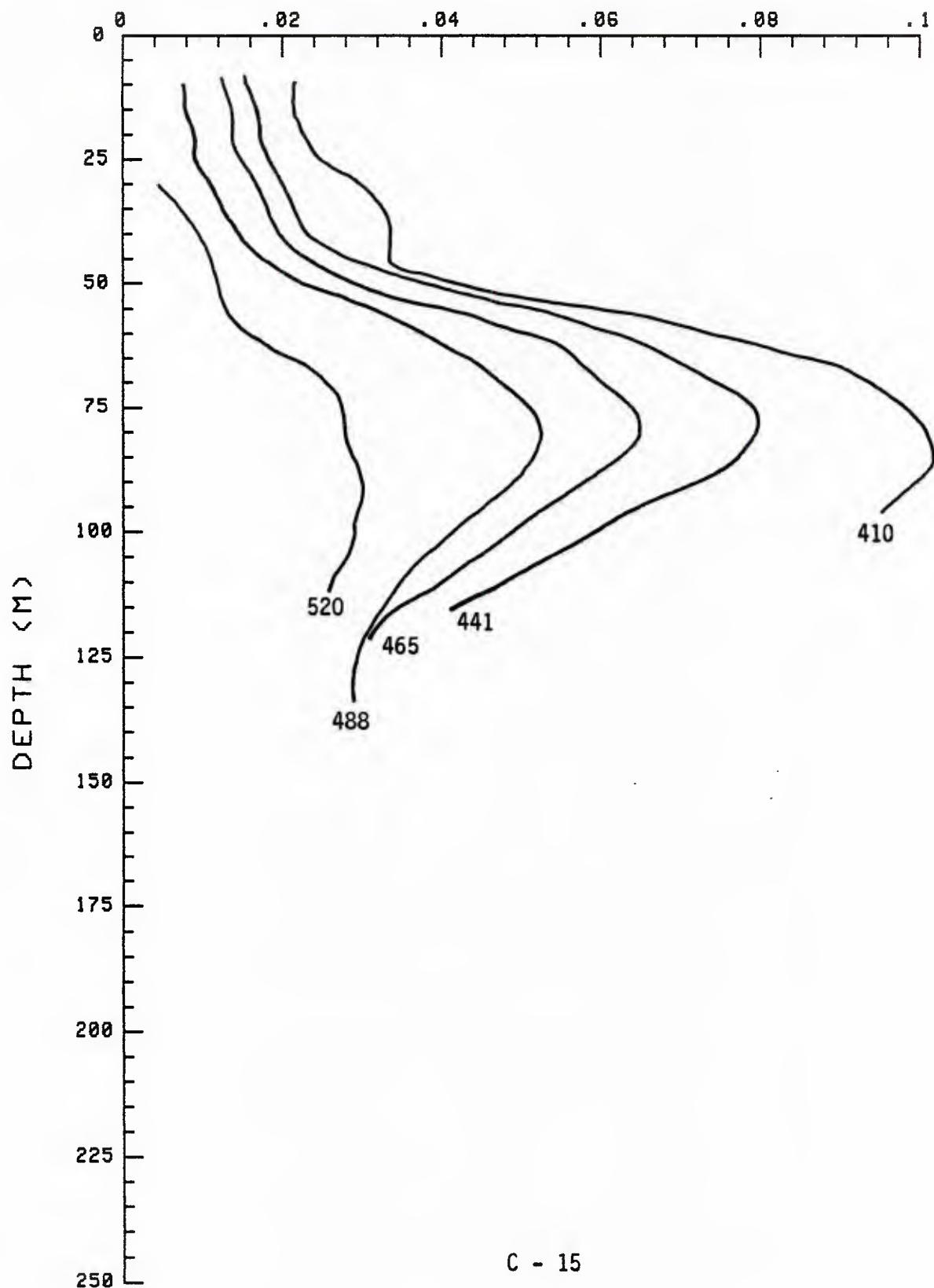
C - 14

ODEX 3 STA 38 UP CAST 10-18-82 2149Z

LATITUDE 34.9998N

LONGITUDE 125.4549W

TOTAL DIFFUSE ATTENUATION - WATER ATTENUATION

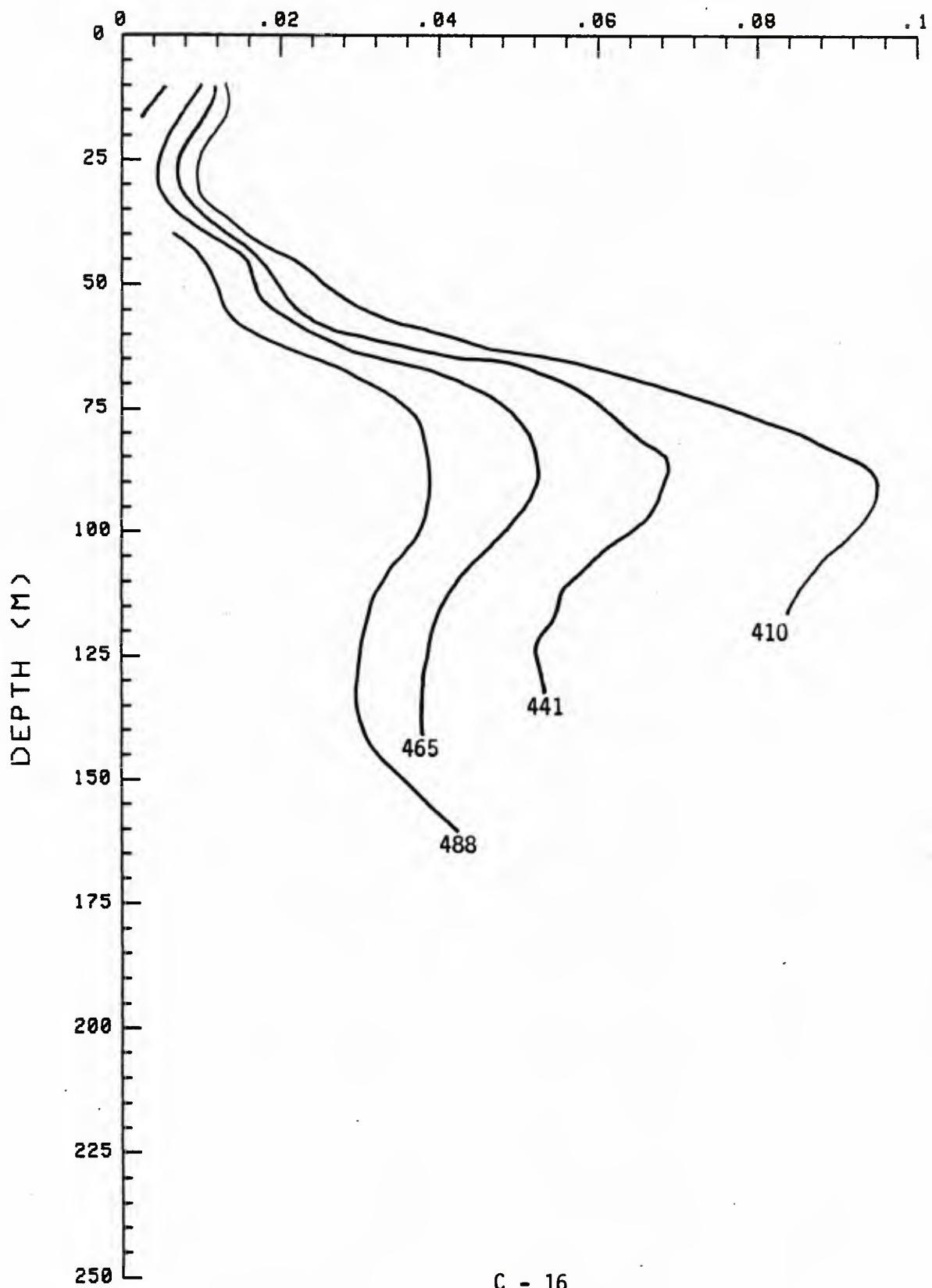


ODEX 3 STA 44 UP CAST 10-19-82 2110Z

LATITUDE 34.295N

LONGITUDE 128.899W

TOTAL DIFFUSE ATTENUATION - WATER ATTENUATION

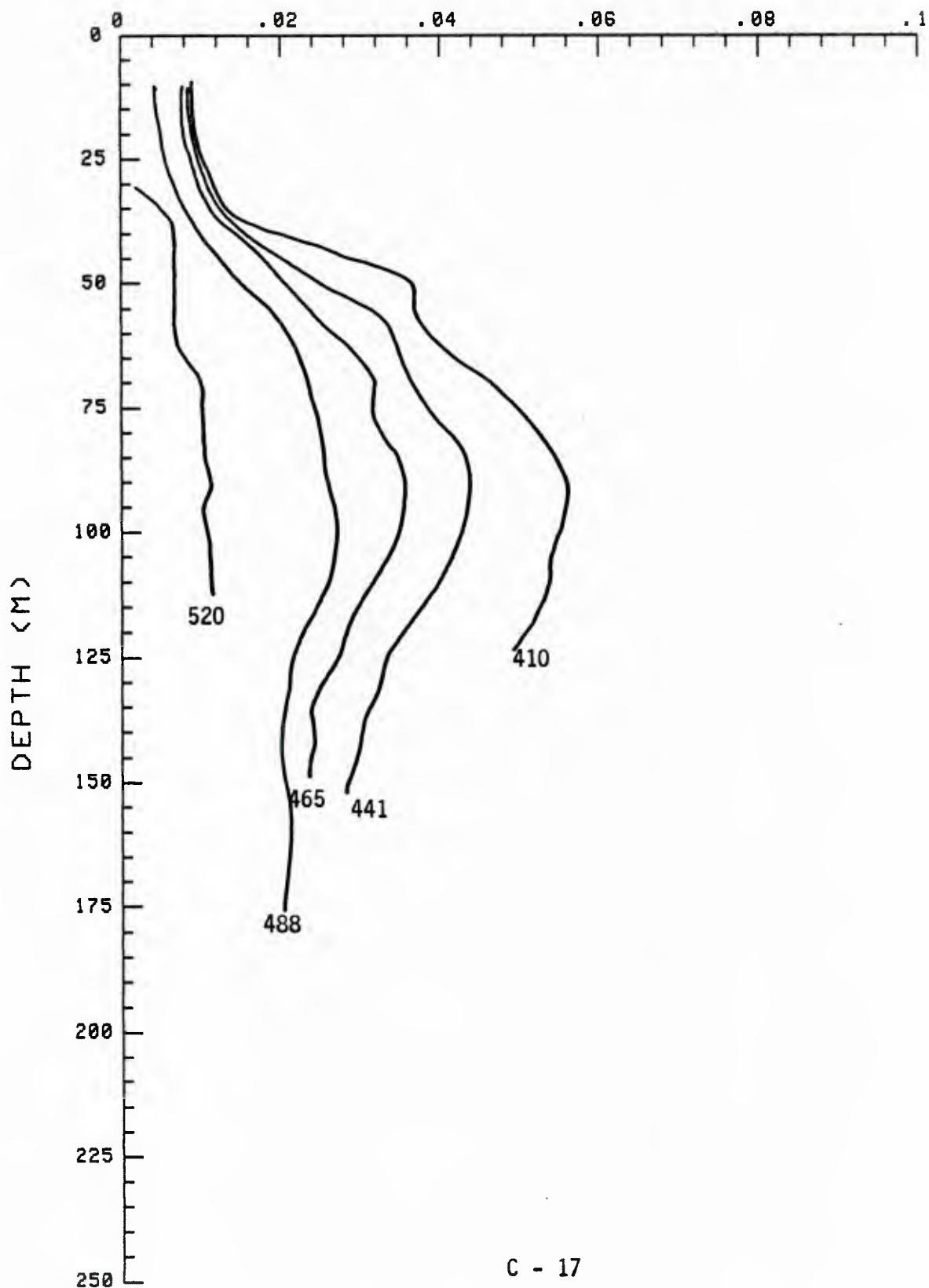


ODEX 3 STA 46 UP CAST 10-28-82 1911Z

LATITUDE 34.3303N

LONGITUDE 130.4653W

TOTAL DIFFUSE ATTENUATION - WATER ATTENUATION

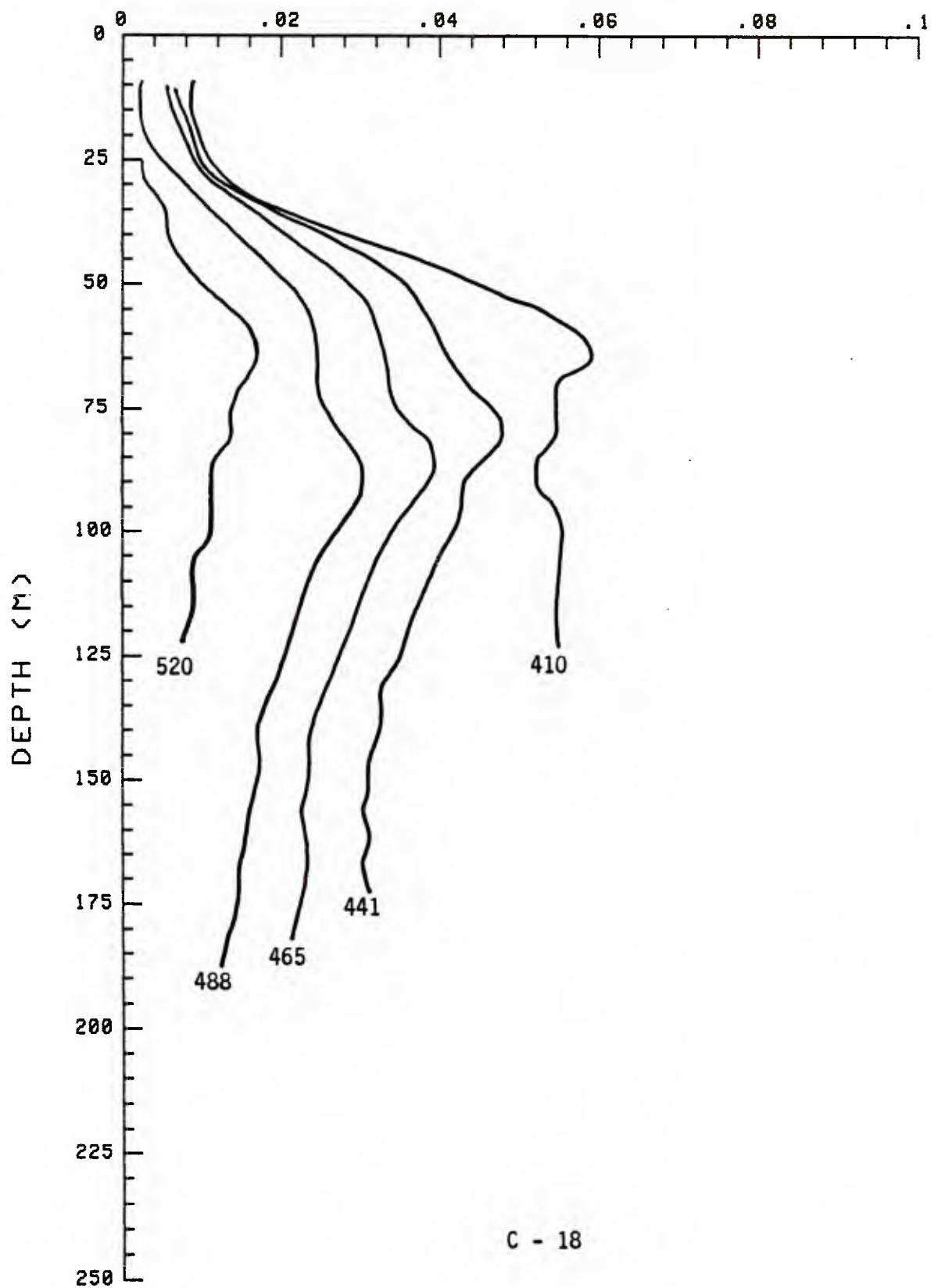


ODEX 3 STA 47 DN CAST 10-22-82 2055Z

LATITUDE 34.123N

LONGITUDE 134.223W

TOTAL DIFFUSE ATTENUATION - WATER ATTENUATION

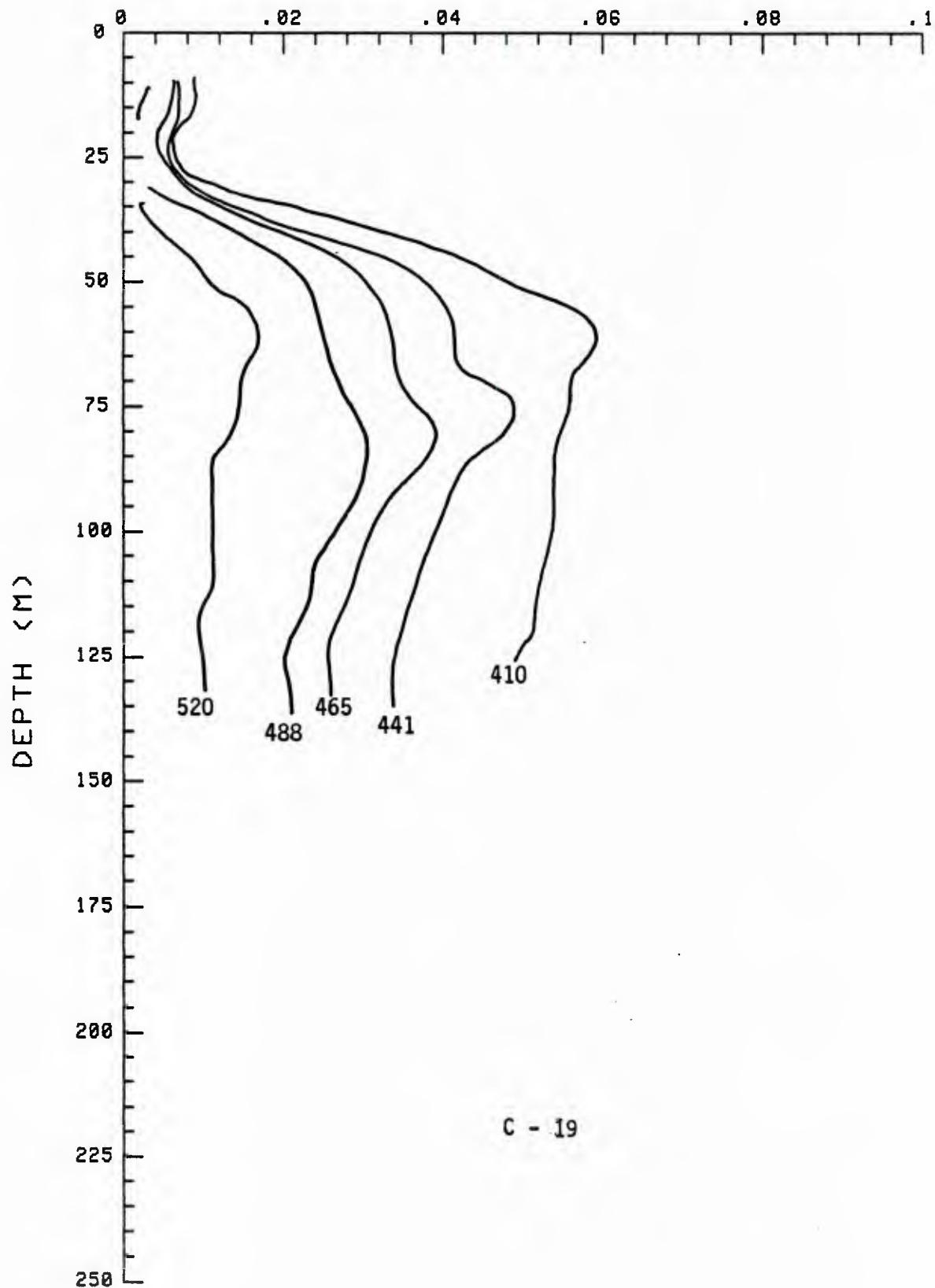


ODEX 3 STA 47 UP CAST 10-22-82 21292

LATITUDE 34.1231N

LONGITUDE 134.2236W

TOTAL DIFFUSE ATTENUATION - WATER ATTENUATION

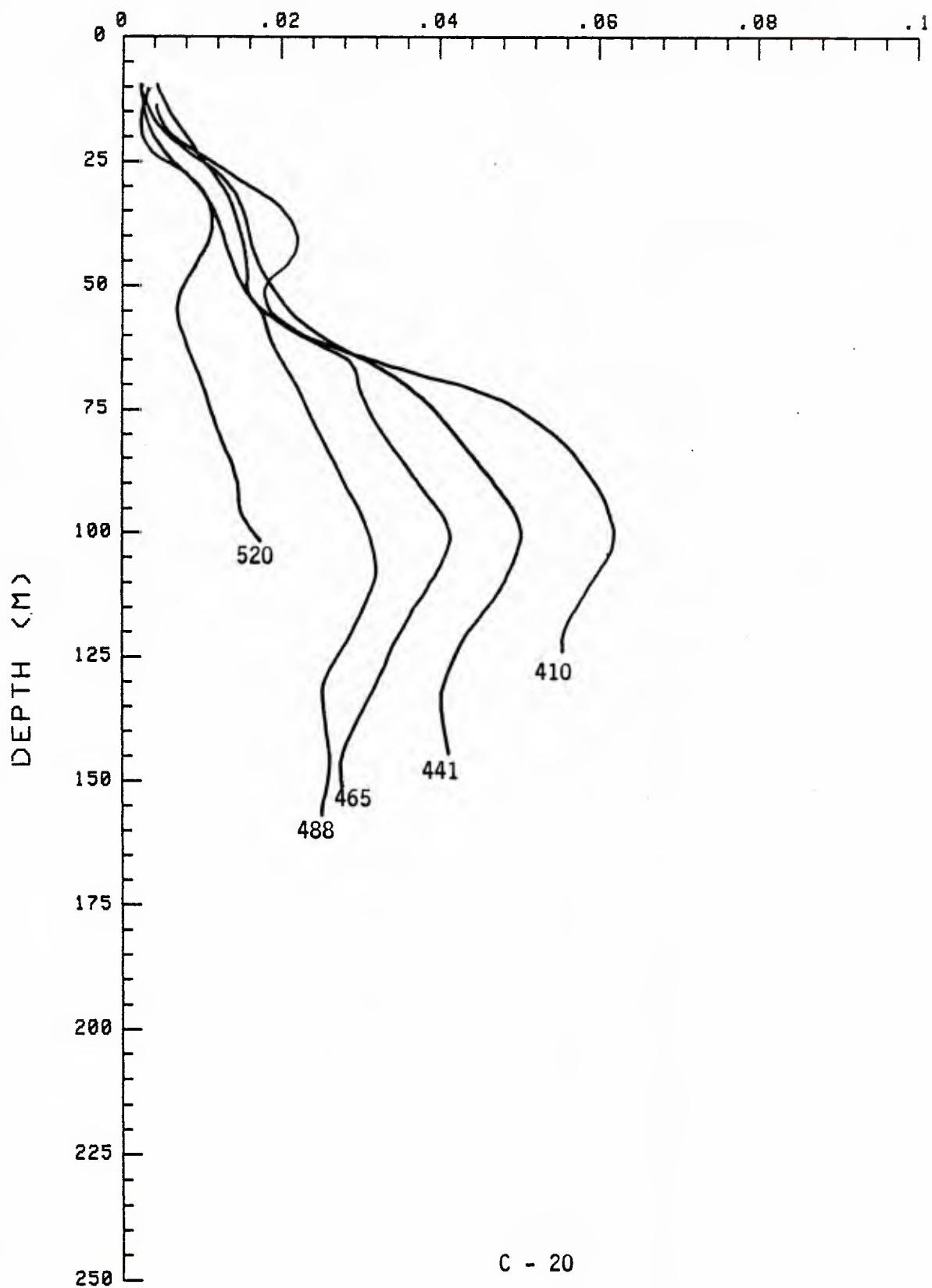


ODEX 3 STA 51 UP CAST 10-26-82 00442

LATITUDE 34.8128N

LONGITUDE 141.0898W

TOTAL DIFFUSE ATTENUATION - WATER ATTENUATION

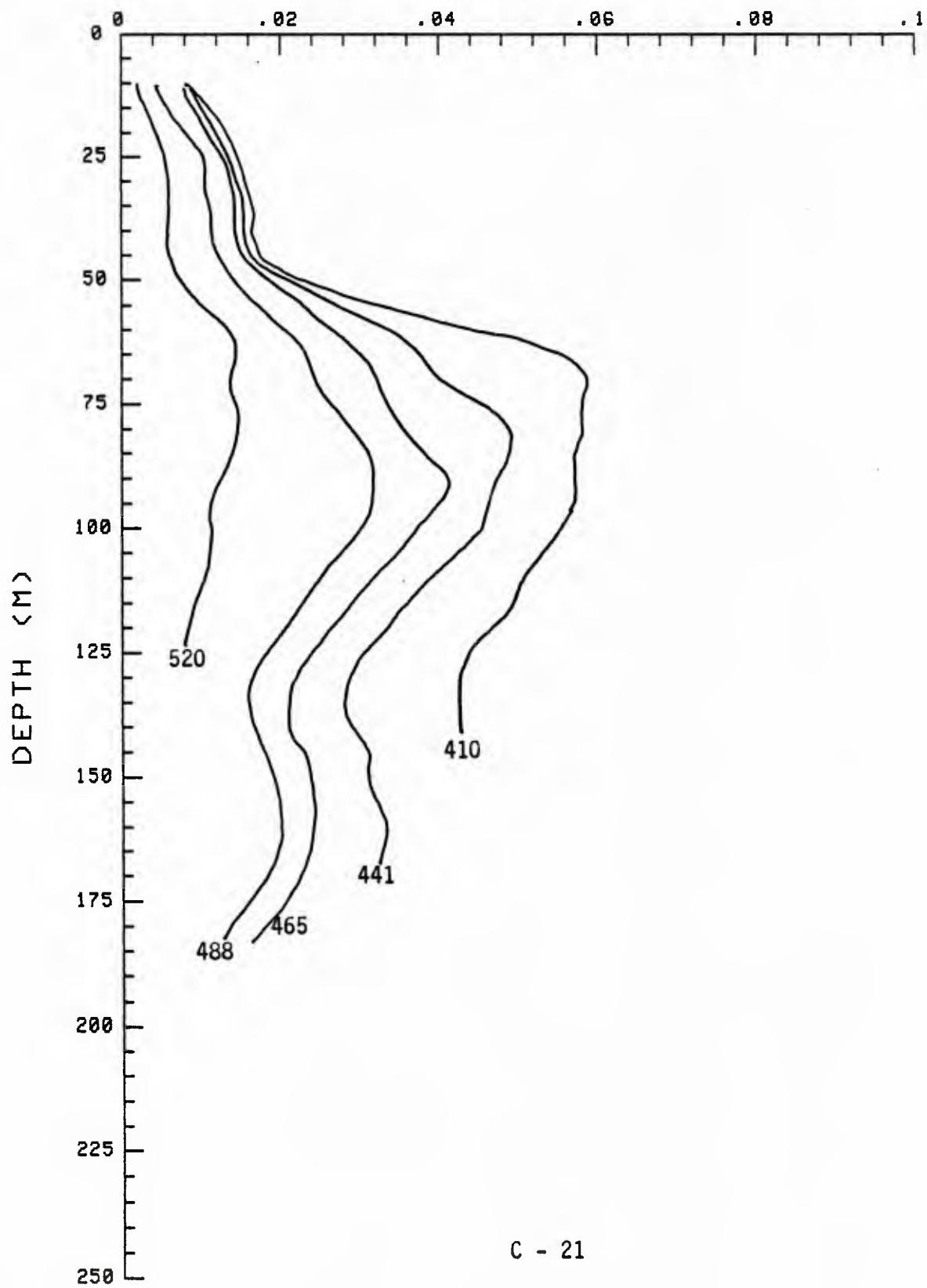


ODEX 3 STA 58 DN CAST 10-27-82 2143Z

LATITUDE 33.5810N

LONGITUDE 142.0630W

TOTAL DIFFUSE ATTENUATION - WATER ATTENUATION

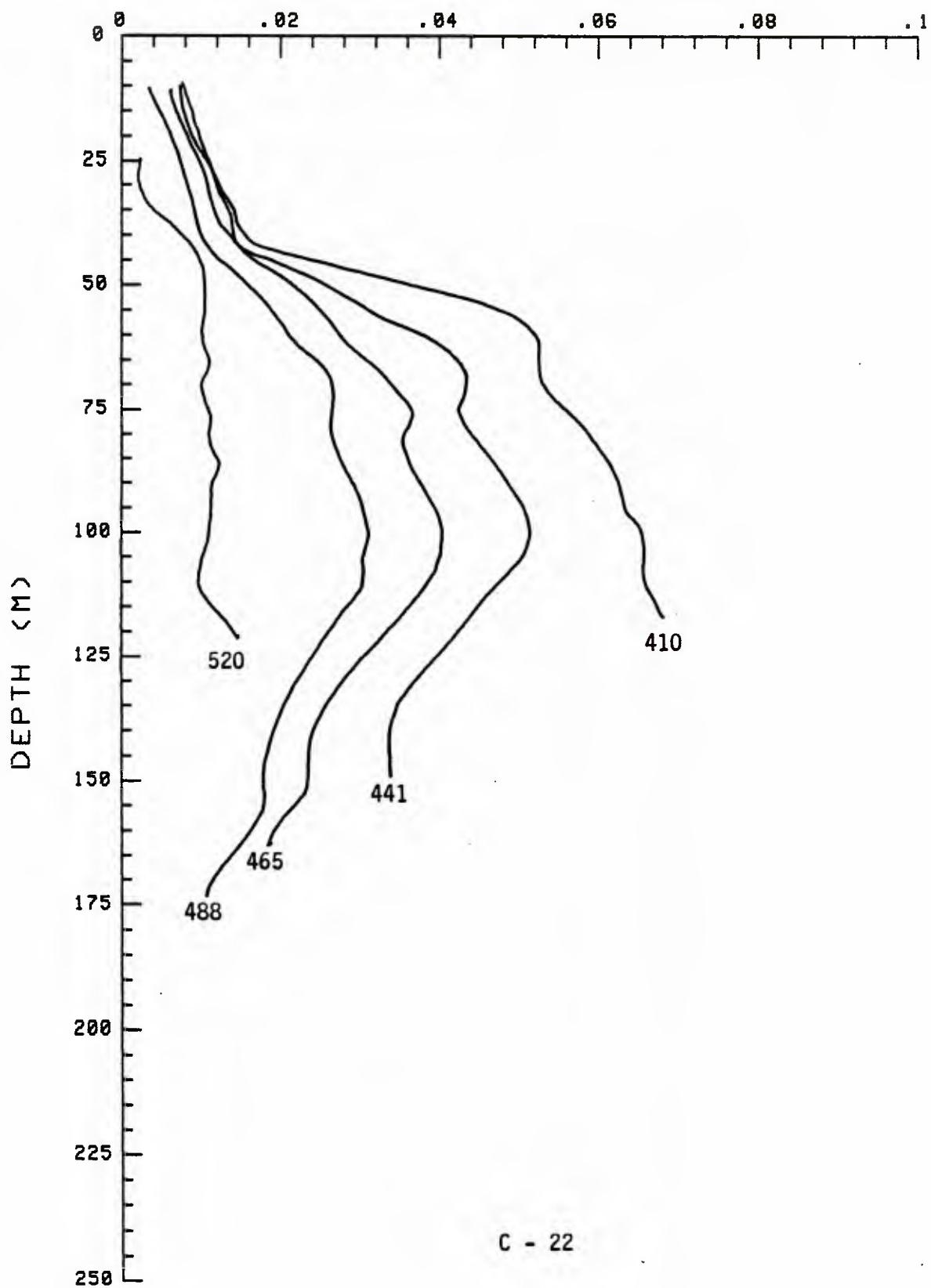


ODEX 3 STA 63 ON CAST 10-28-82 2213Z

LATITUDE 33.4478N

LONGITUDE 141.1768W

TOTAL DIFFUSE ATTENUATION - WATER ATTENUATION

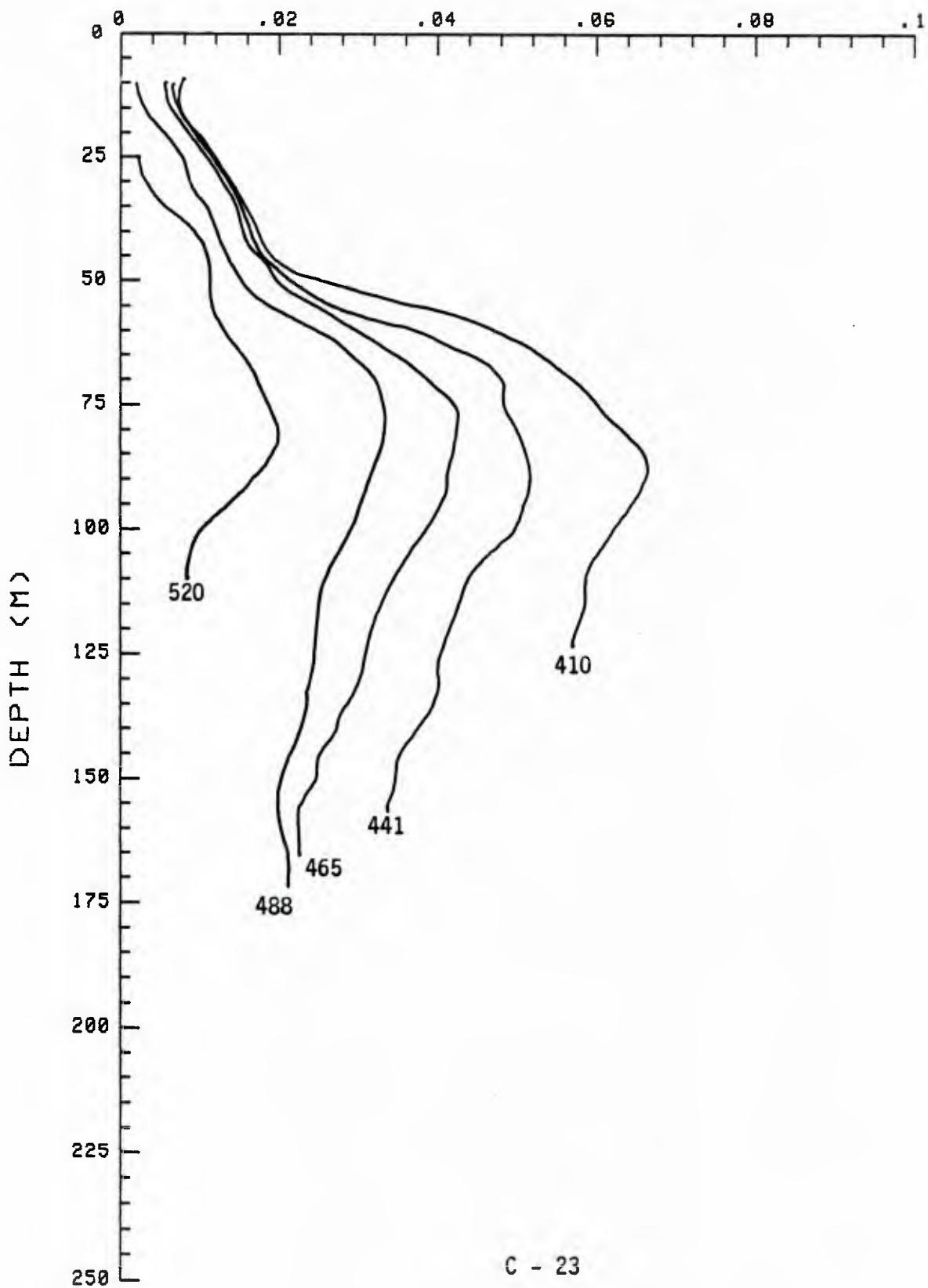


ODEX 3 STA 66 DN CAST 10-29-82 20552

LATITUDE 33.3343N

LONGITUDE 141.3892W

TOTAL DIFFUSE ATTENUATION - WATER ATTENUATION

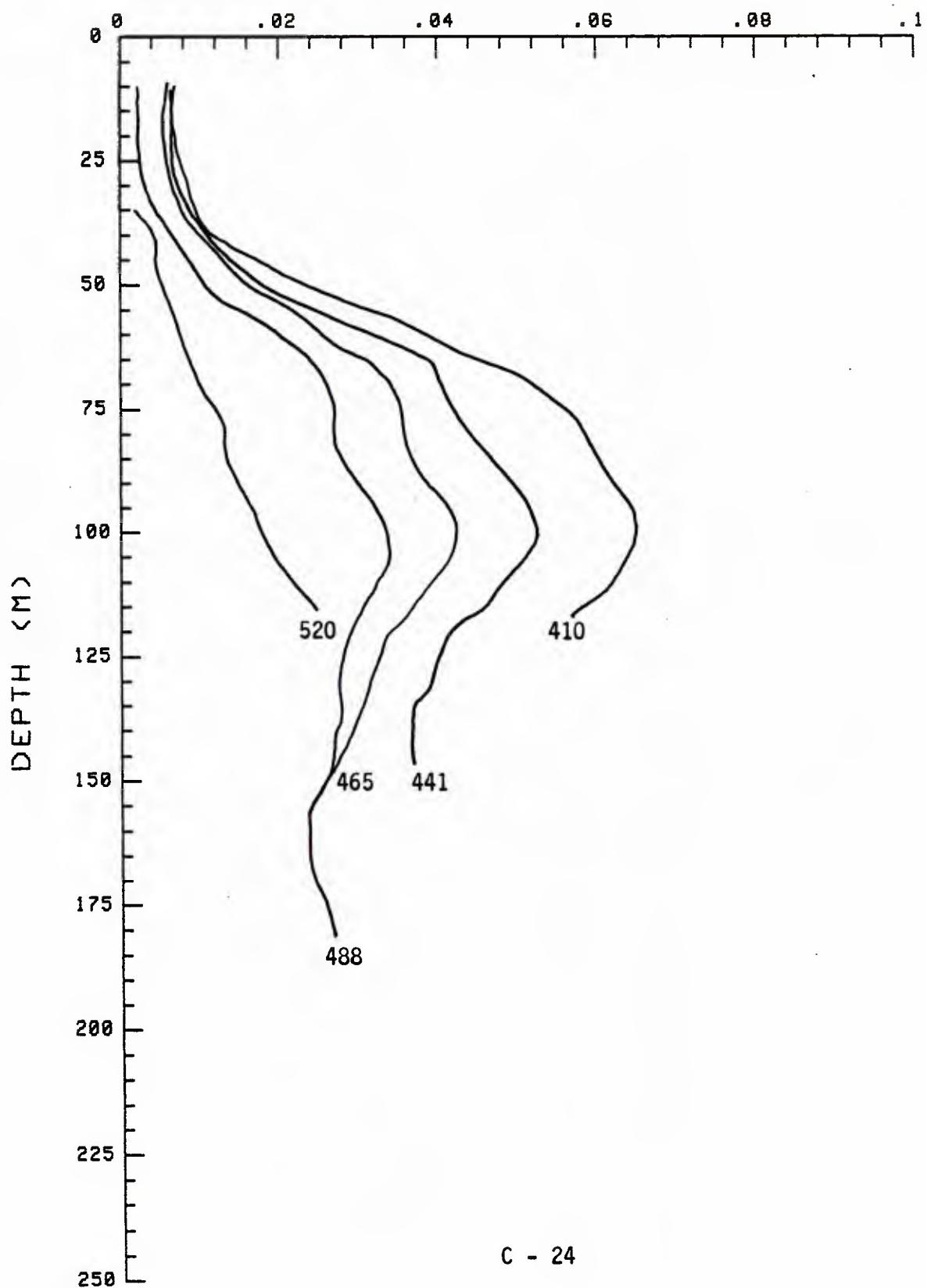


ODEX 3 STA 66 UP CAST 18-29-82 2119Z

LATITUDE 33.3343N

LONGITUDE 141.3892W

TOTAL DIFFUSE ATTENUATION - WATER ATTENUATION

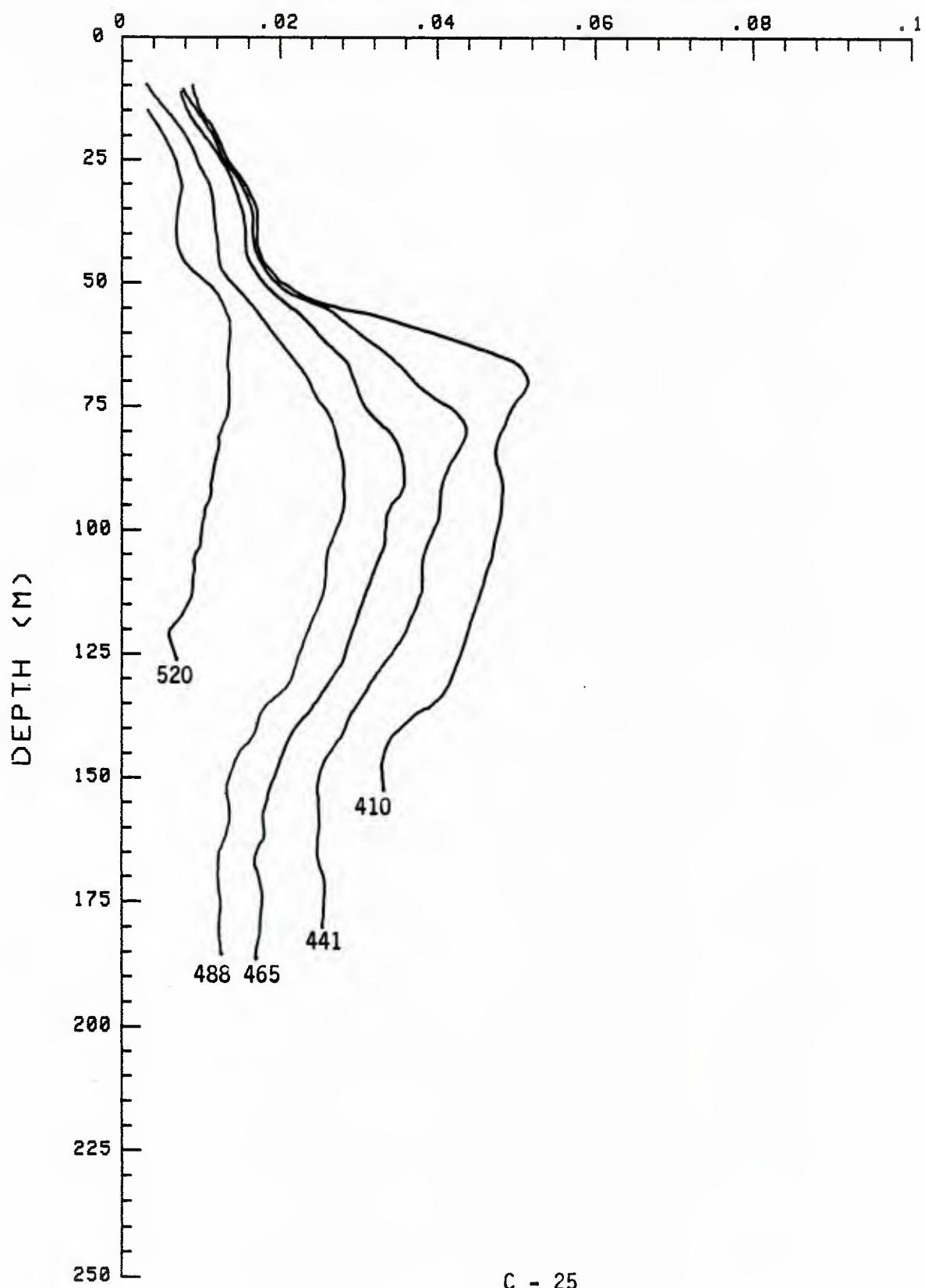


ODEX 3 STA 72 ON CAST 10-31-82 1844Z

LATITUDE 31.2648N

LONGITUDE 141.3676W

TOTAL DIFFUSE ATTENUATION - WATER ATTENUATION

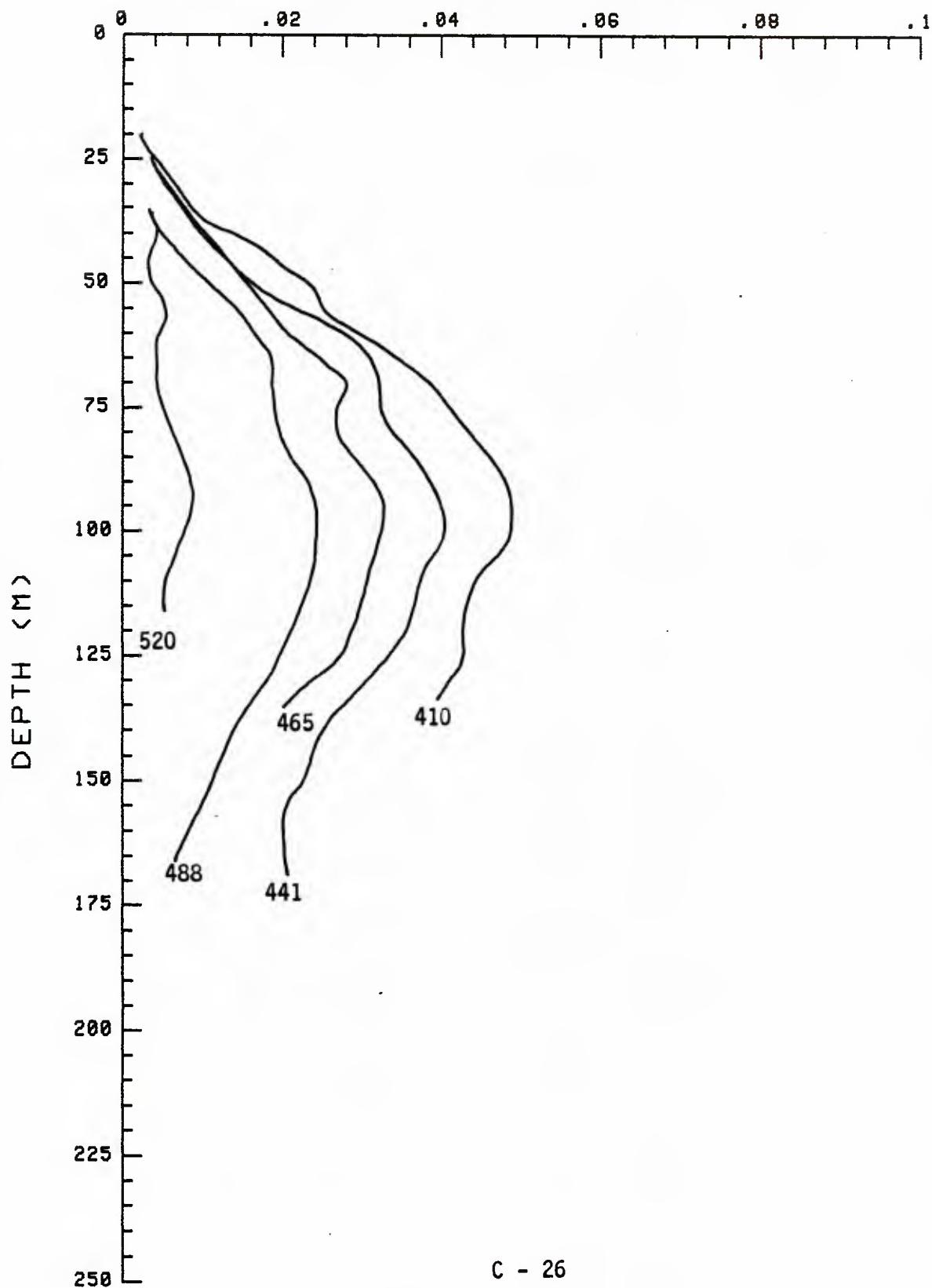


ODEX 3 STA 73 ON CAST 10-31-82 23522

LATITUDE 31.0268N

LONGITUDE 141.3498W

TOTAL DIFFUSE ATTENUATION - WATER ATTENUATION

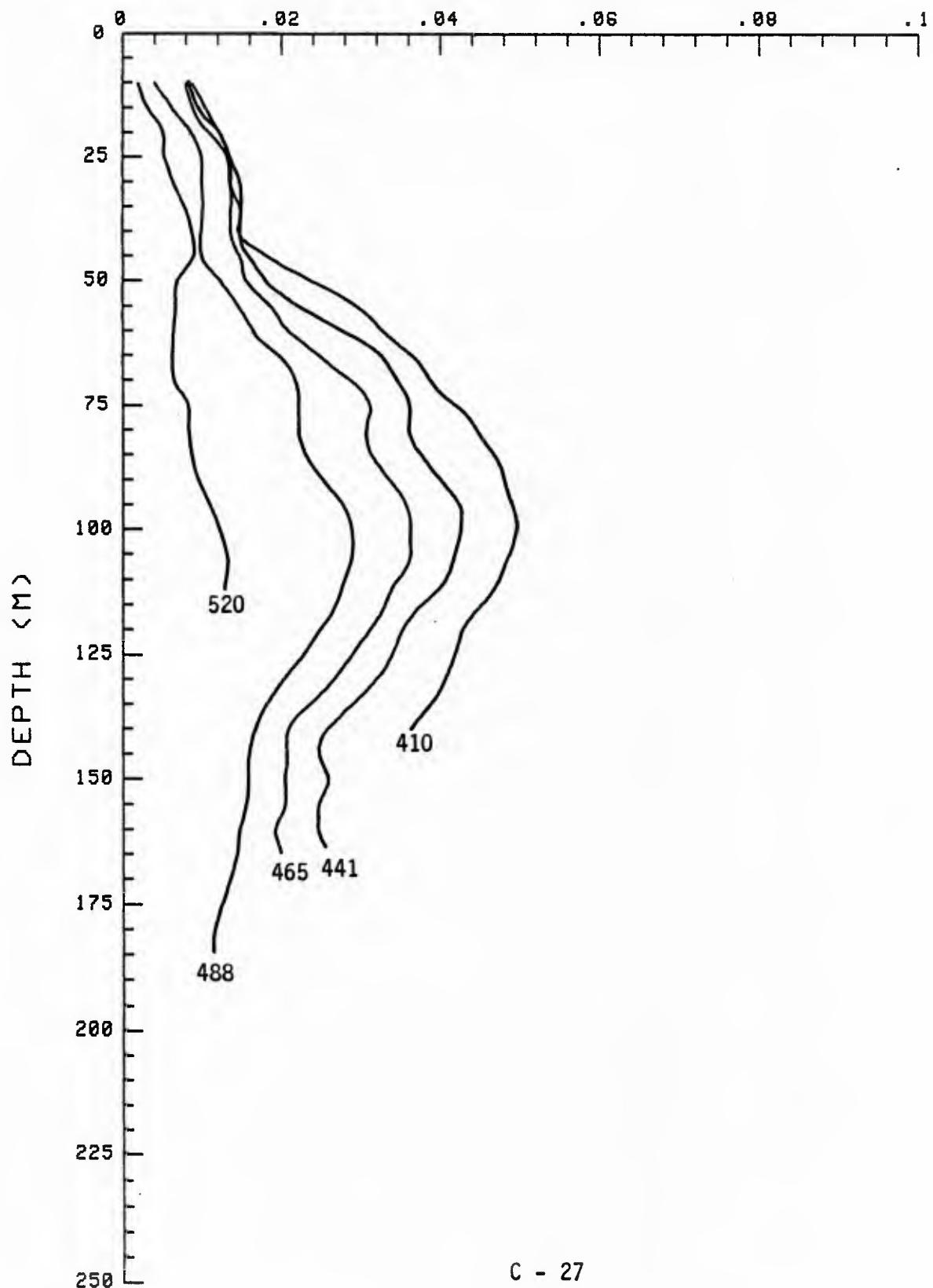


ODEX 3 STA 73 UP CAST 10-31-82 2359Z

LATITUDE 31.8260N

LONGITUDE 141.3490W

TOTAL DIFFUSE ATTENUATION - WATER ATTENUATION

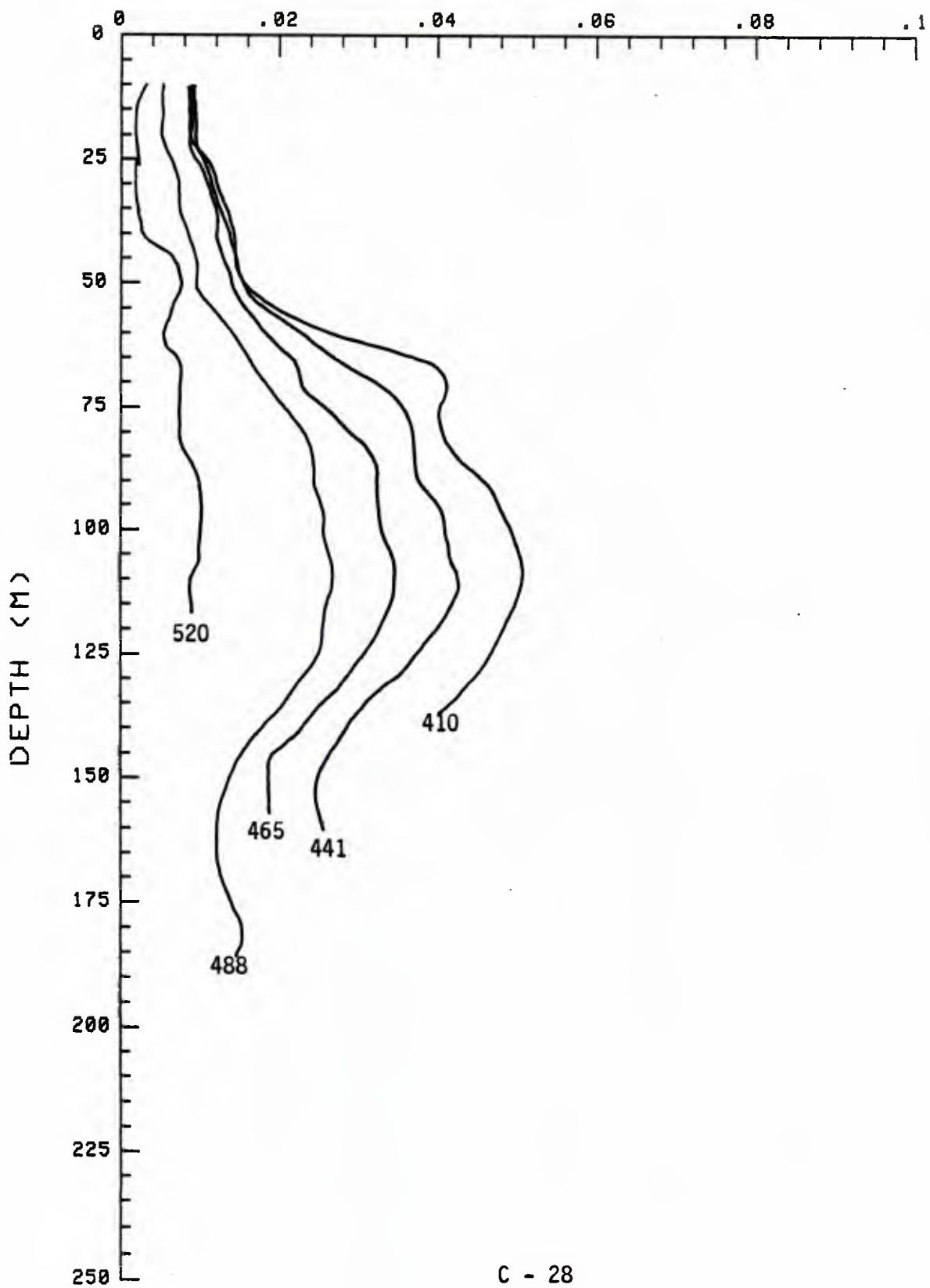


ODEX 3 STA 778 UP CAST 11-1-82 2133Z

LATITUDE 30.0210N

LONGITUDE 141.2210W

TOTAL DIFFUSE ATTENUATION - WATER ATTENUATION

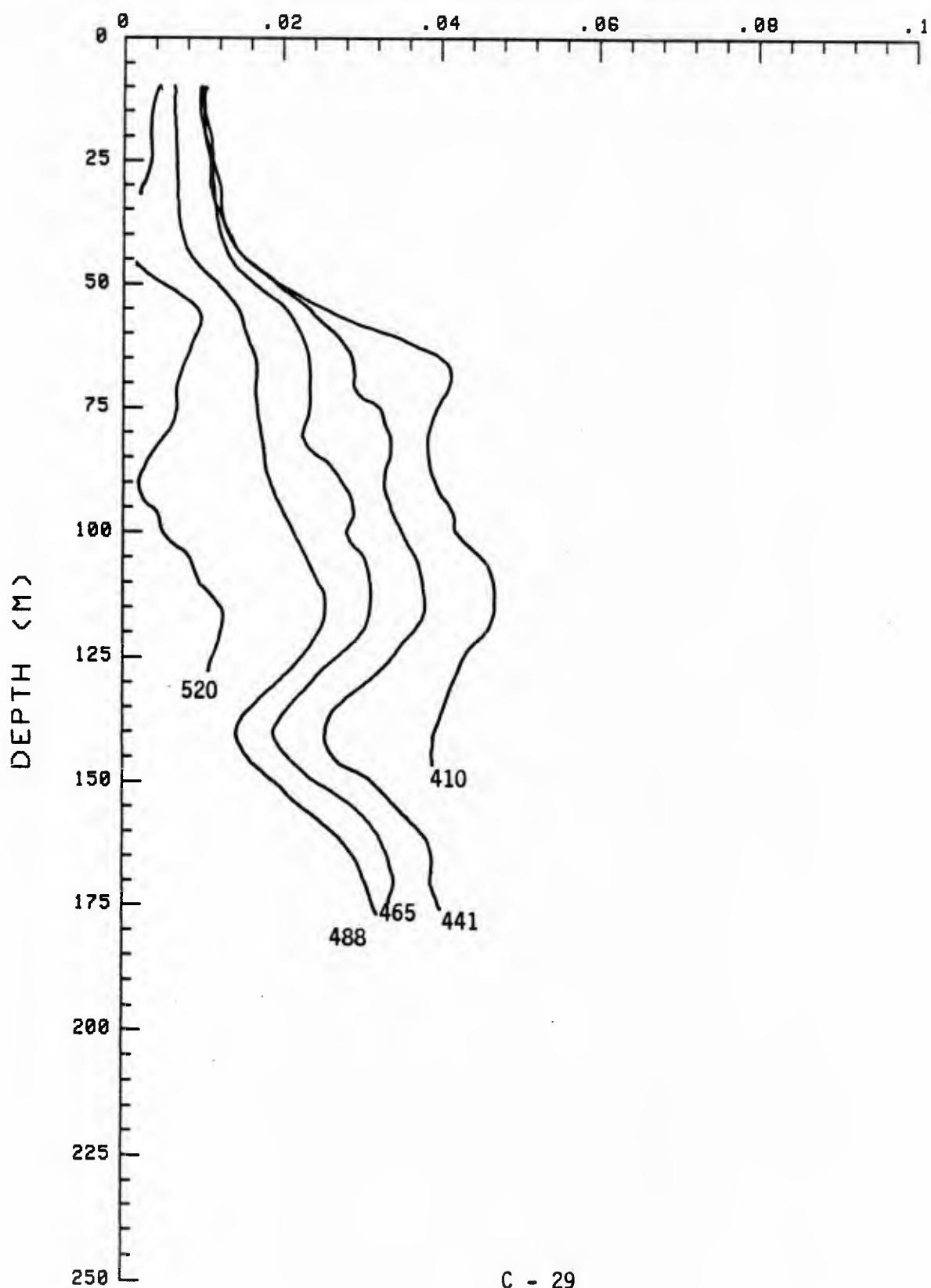


ODEX 3 STA 79 UP CAST 11-2-82 1920Z

LATITUDE 30.5753N

LONGITUDE 140.5419W

TOTAL DIFFUSE ATTENUATION - WATER ATTENUATION

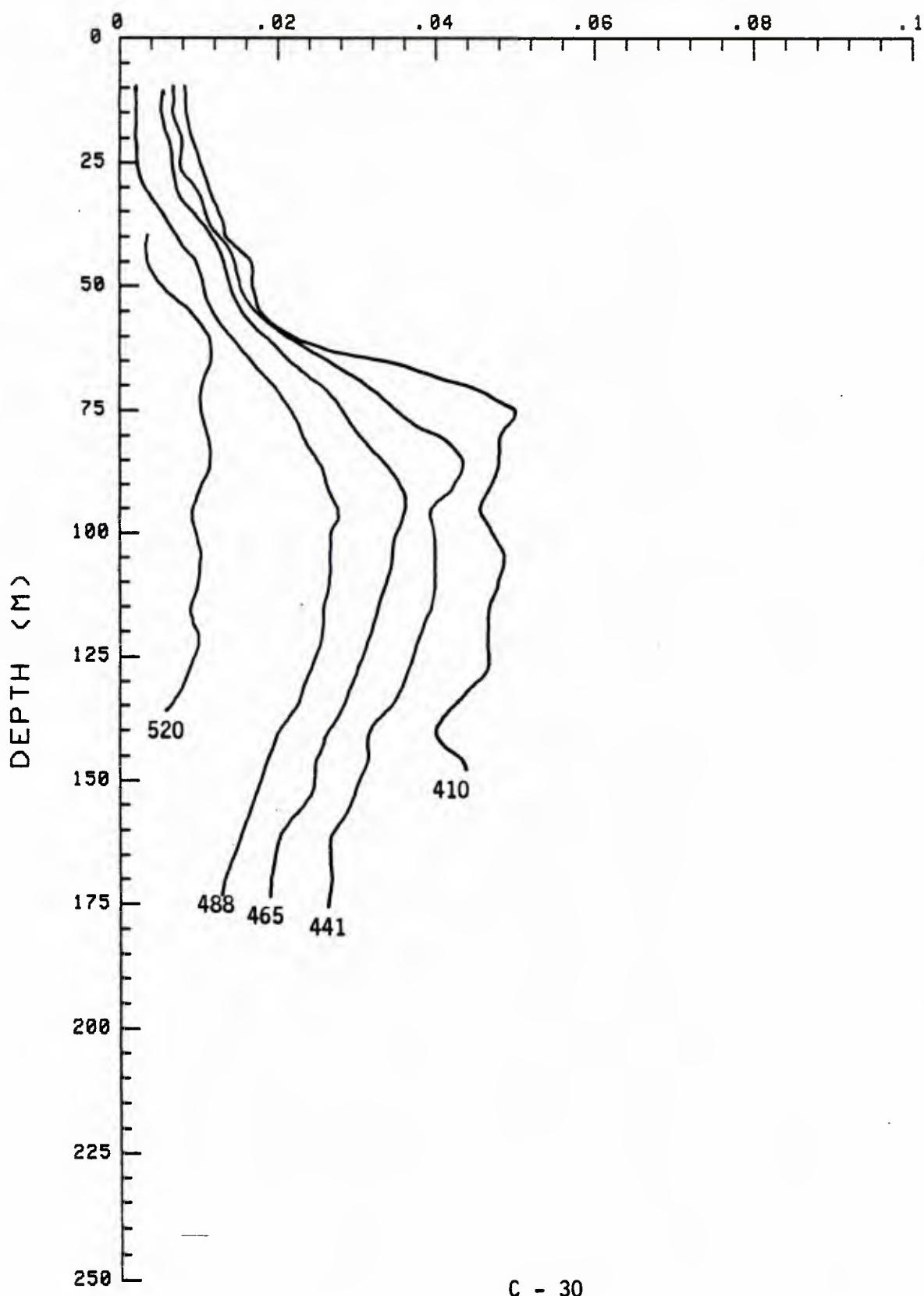


ODEX 3 STA 84 ON CAST 11-3-82 2010Z

LATITUDE 32.5948N

LONGITUDE 148.4784W

TOTAL DIFFUSE ATTENUATION - WATER ATTENUATION

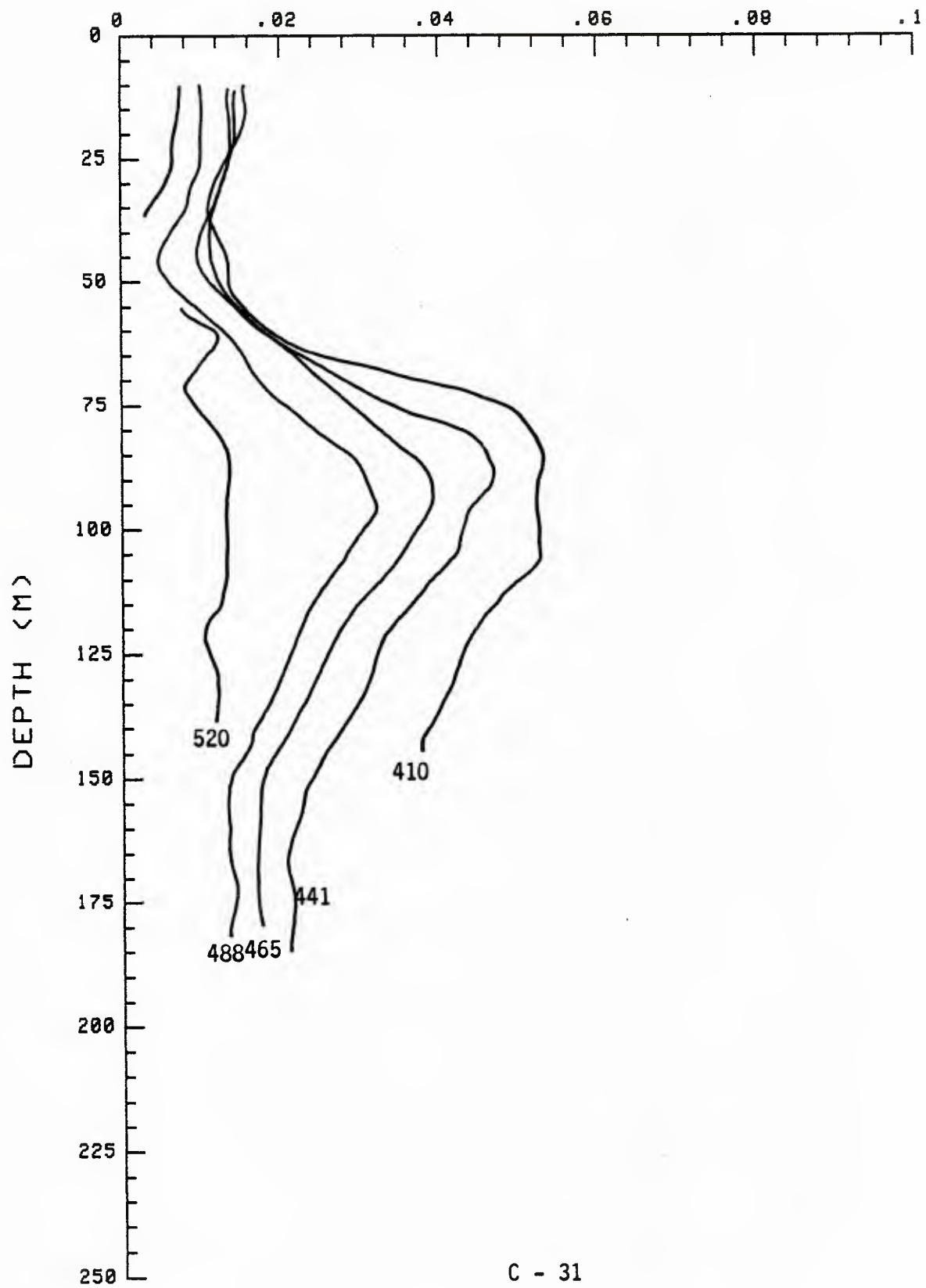


ODEX 3 STA 105 DN CAST 11-5-82 20:03

LATITUDE 32.4650N

LONGITUDE 141.2380W

TOTAL DIFFUSE ATTENUATION - WATER ATTENUATION



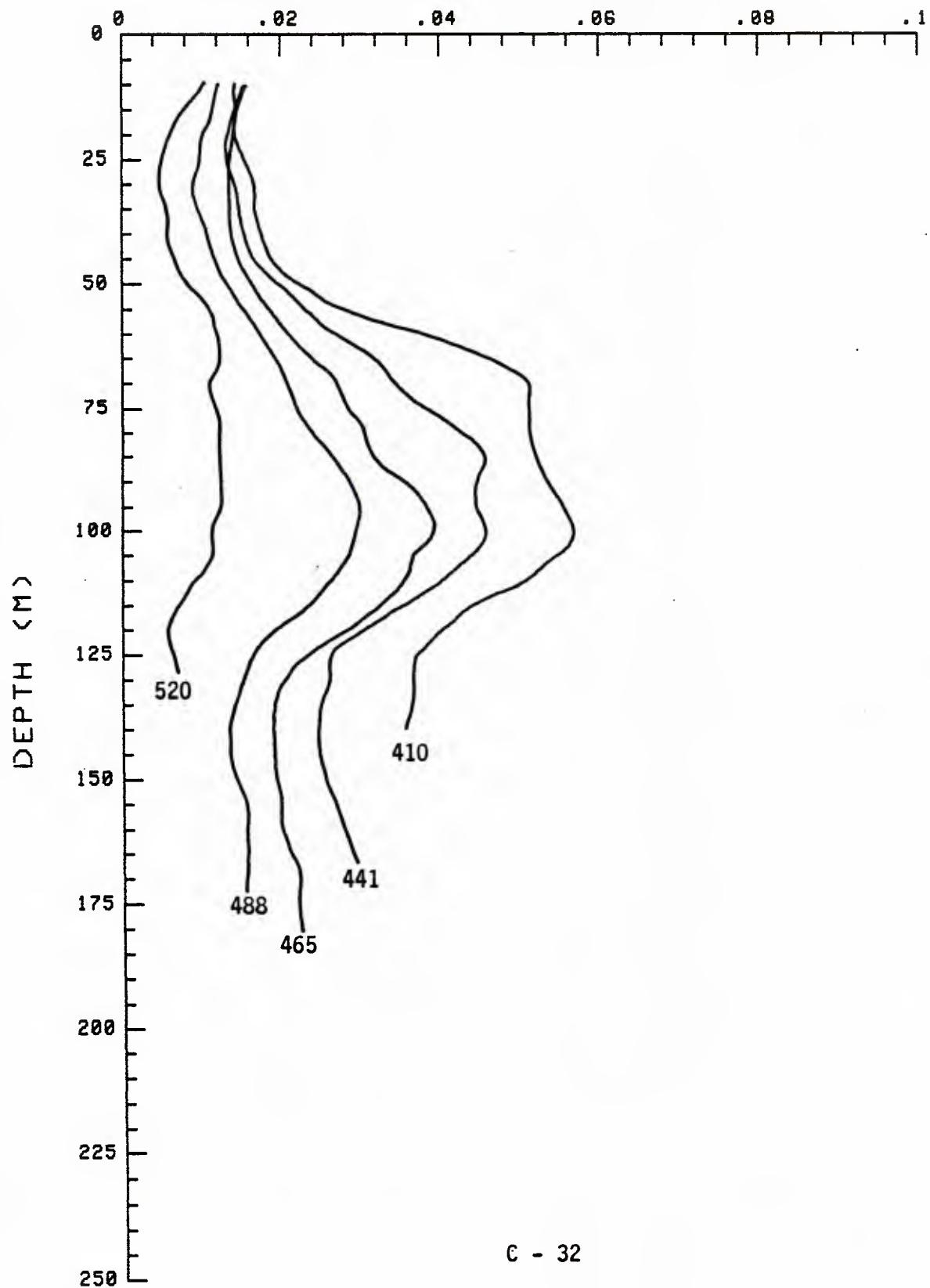
C - 31

ODEX 3 STA 134 DN CAST 11-8-82 2200Z

LATITUDE 32.5605N

LONGITUDE 142.1503W

TOTAL DIFFUSE ATTENUATION - WATER ATTENUATION

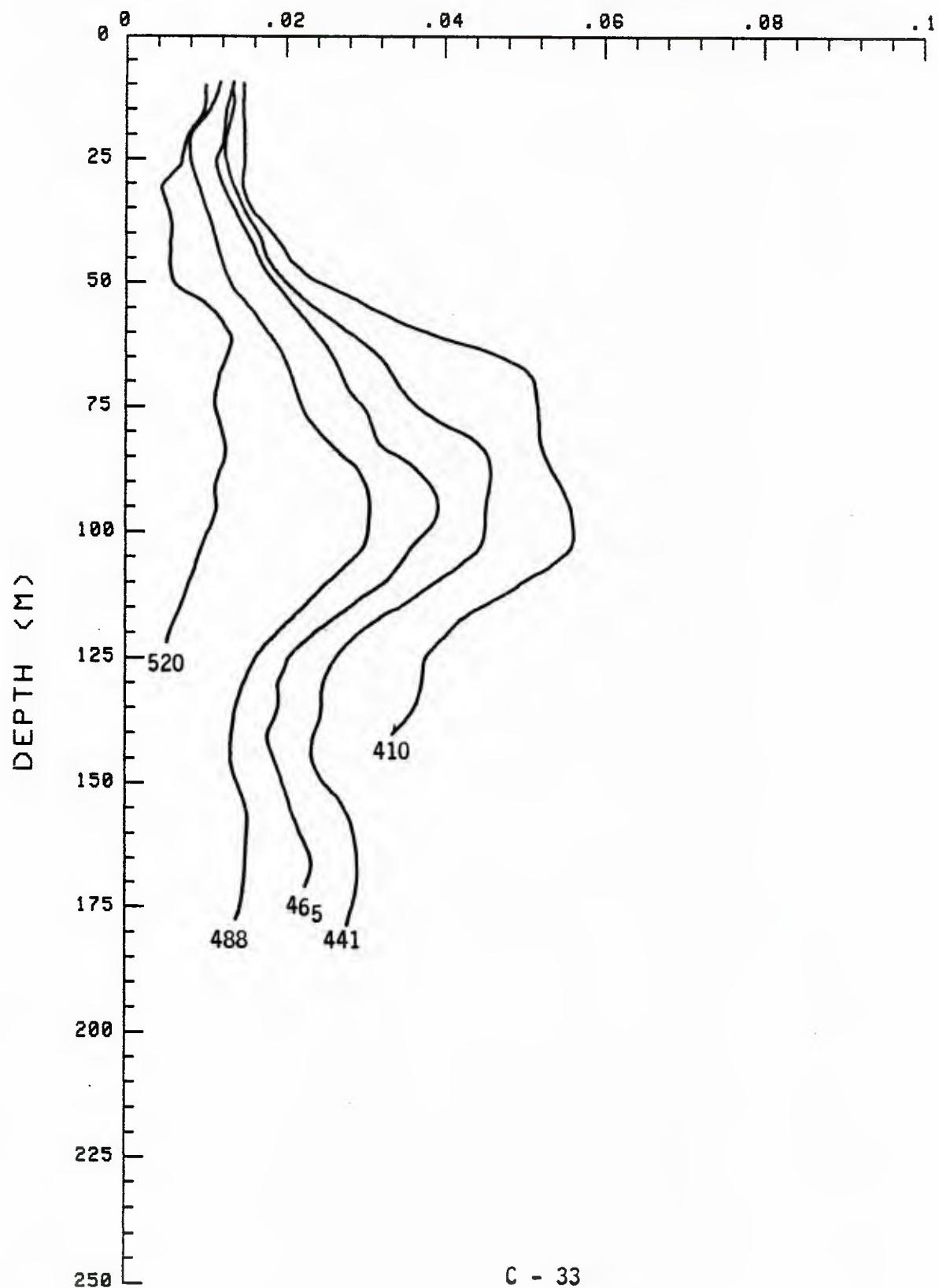


ODEX 3 STA 134 UP CAST 11-8-82 2214Z

LATITUDE 32.5685N

LONGITUDE 142.1503W

TOTAL DIFFUSE ATTENUATION - WATER ATTENUATION

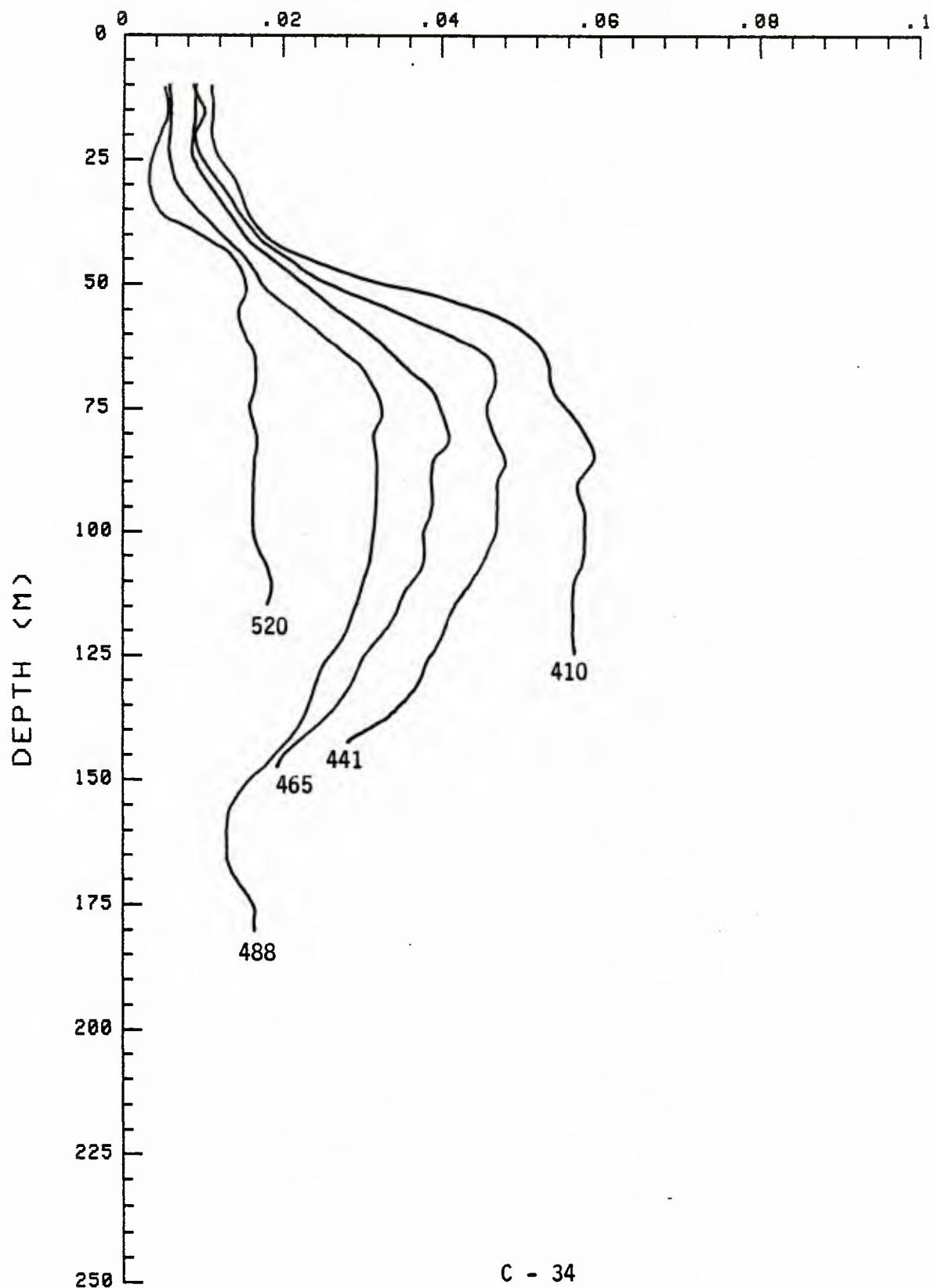


ODEX 3 STA 167 DN CAST 11-12-82 2338Z

LATITUDE 33.4798N

LONGITUDE 136.4688W

TOTAL DIFFUSE ATTENUATION - WATER ATTENUATION

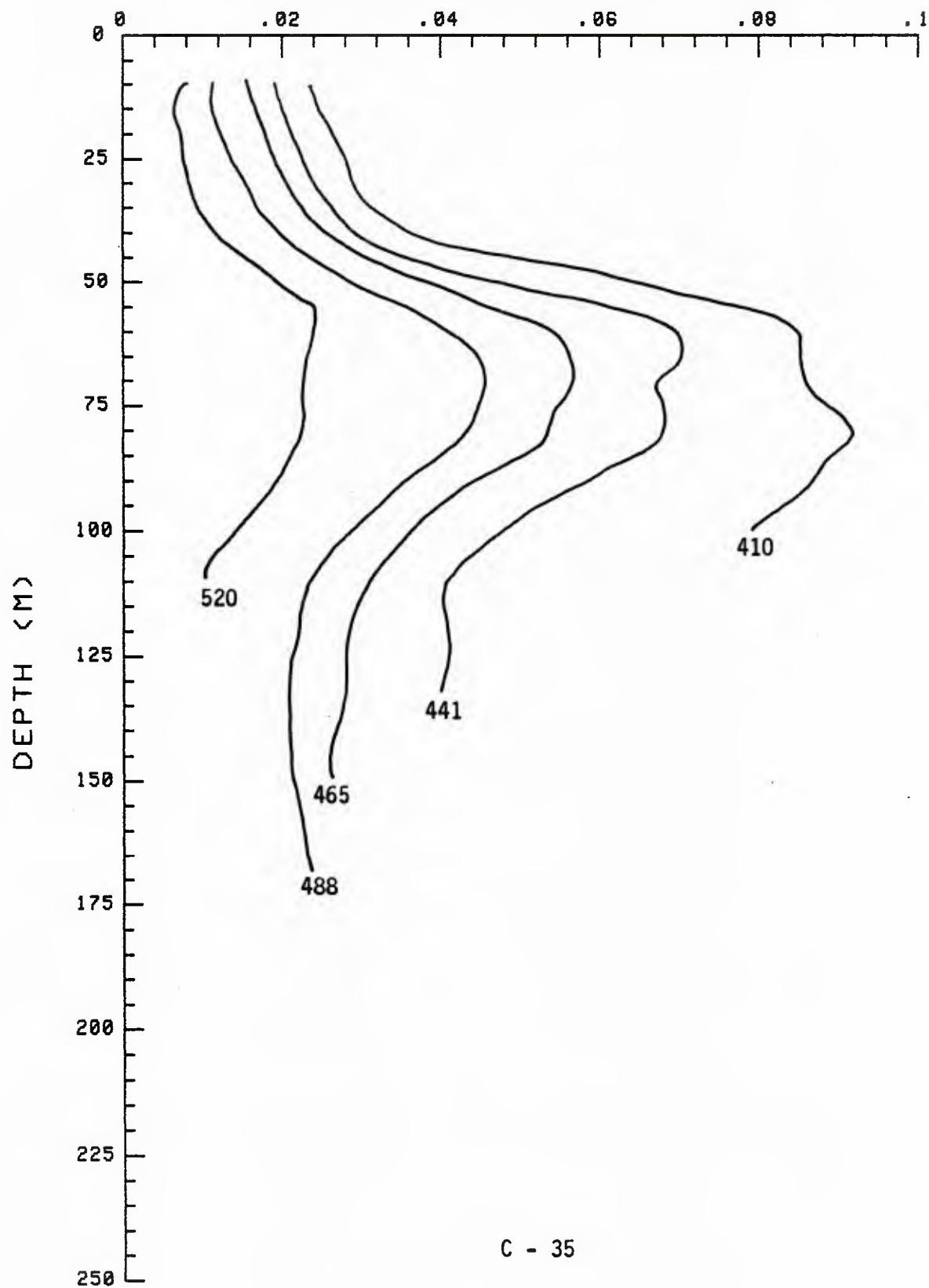


ODEX 3 STA 170 DN CAST 11-15-82 1926Z

LATITUDE 34.4828N

LONGITUDE 127.1375W

TOTAL DIFFUSE ATTENUATION - WATER ATTENUATION

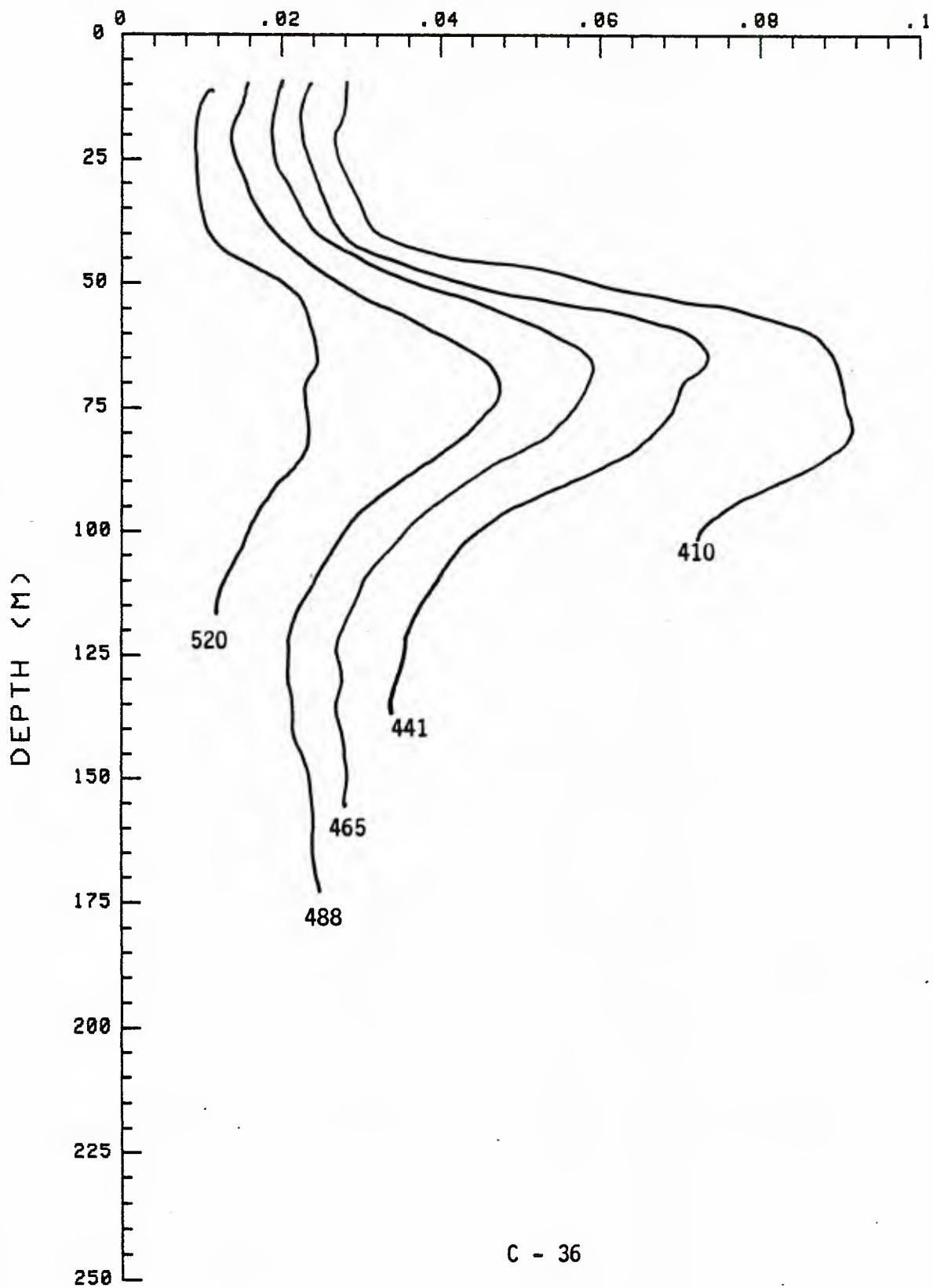


ODEX 3 STA 170 UP CAST 11-15-82 1935Z

LATITUDE 34.4828N

LONGITUDE 127.1375W

TOTAL DIFFUSE ATTENUATION - WATER ATTENUATION

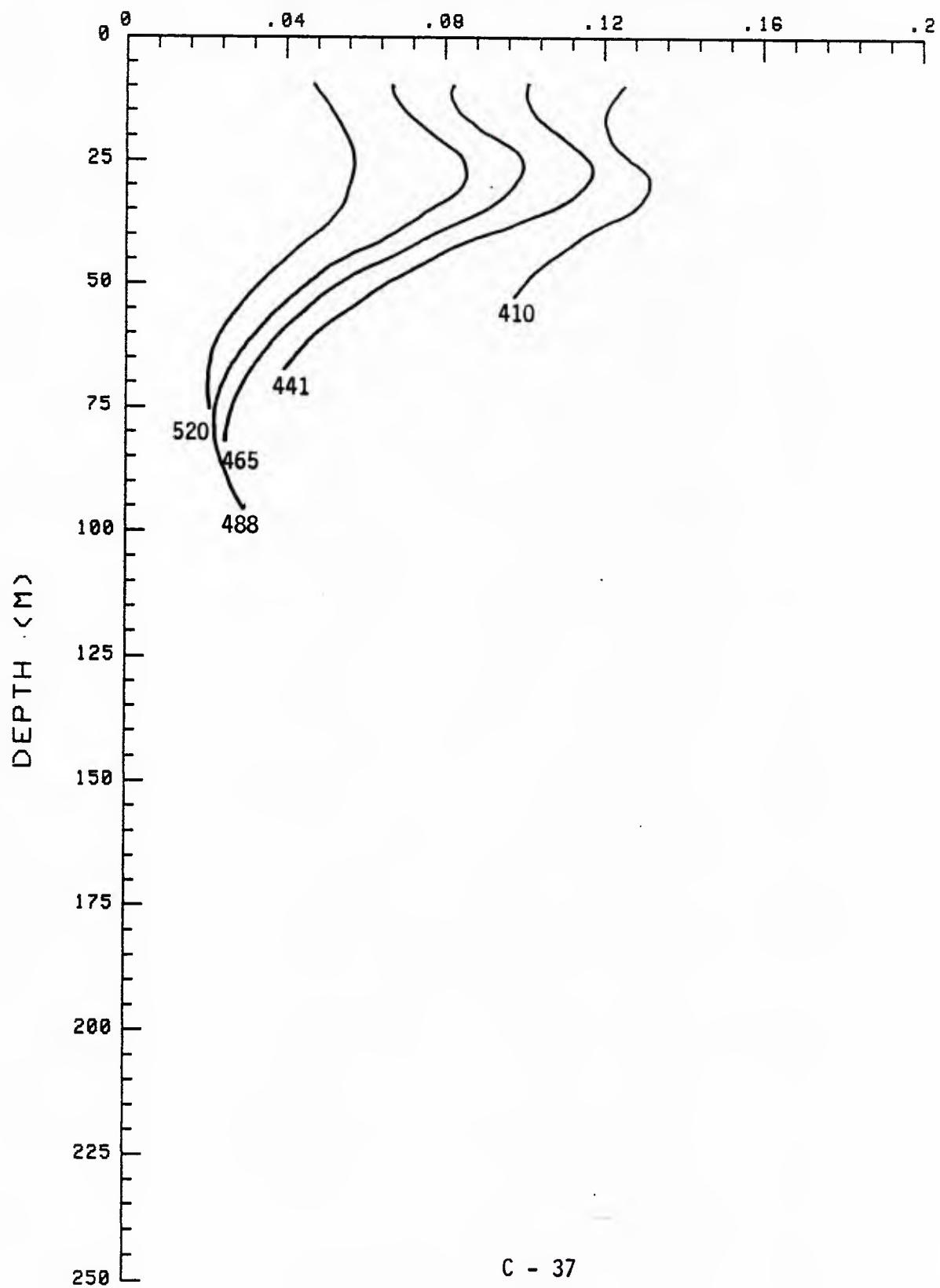


ODEX 3 STA 176 UP CAST 11-16-82 2328Z

LATITUDE 34.5865N

LONGITUDE 123.3559W

TOTAL DIFFUSE ATTENUATION - WATER ATTENUATION

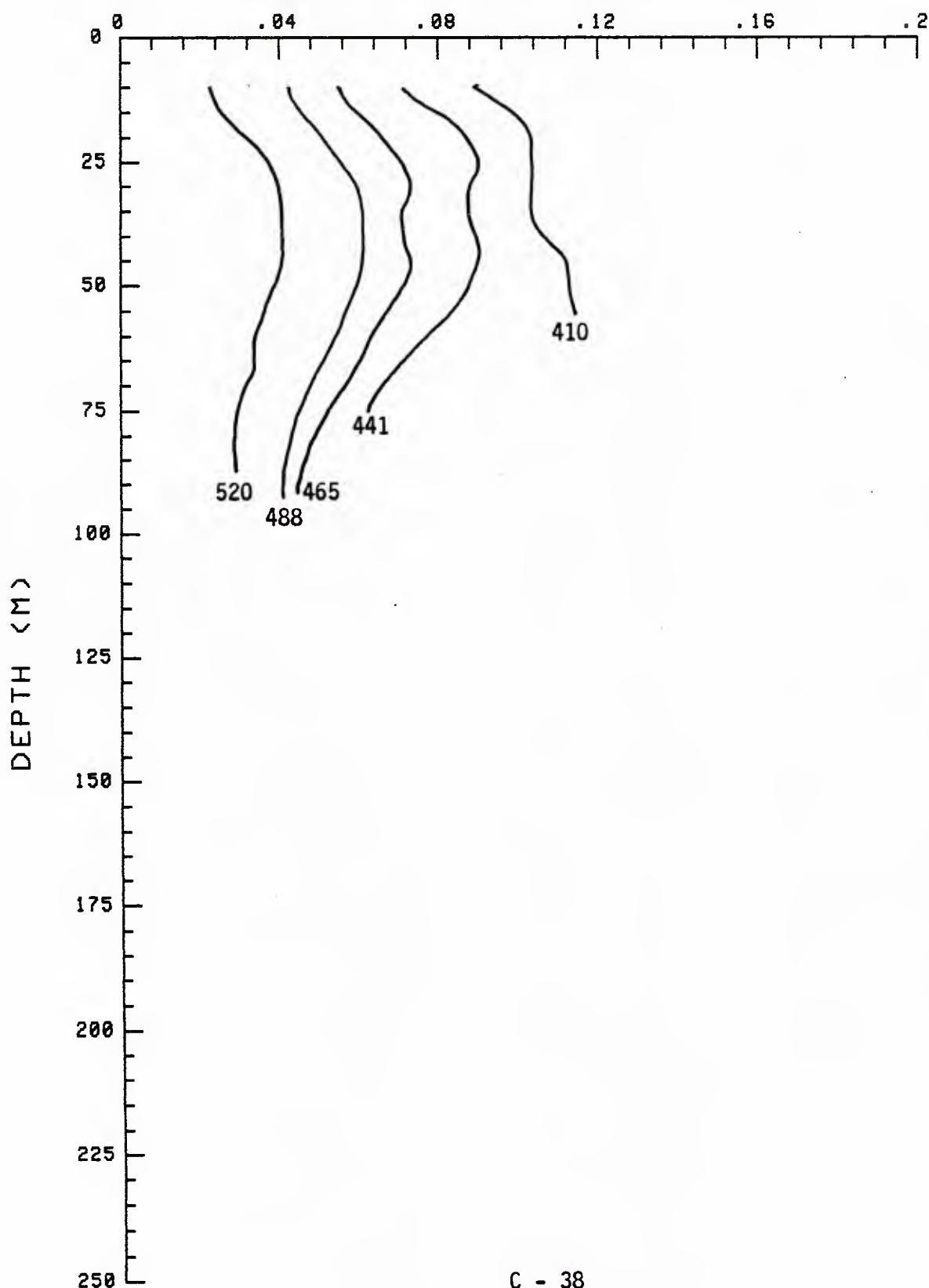


ODEX 3 STA 182 UP CAST 11-17-82 20262

LATITUDE 35.5353N

LONGITUDE 121.3916W

TOTAL DIFFUSE ATTENUATION - WATER ATTENUATION

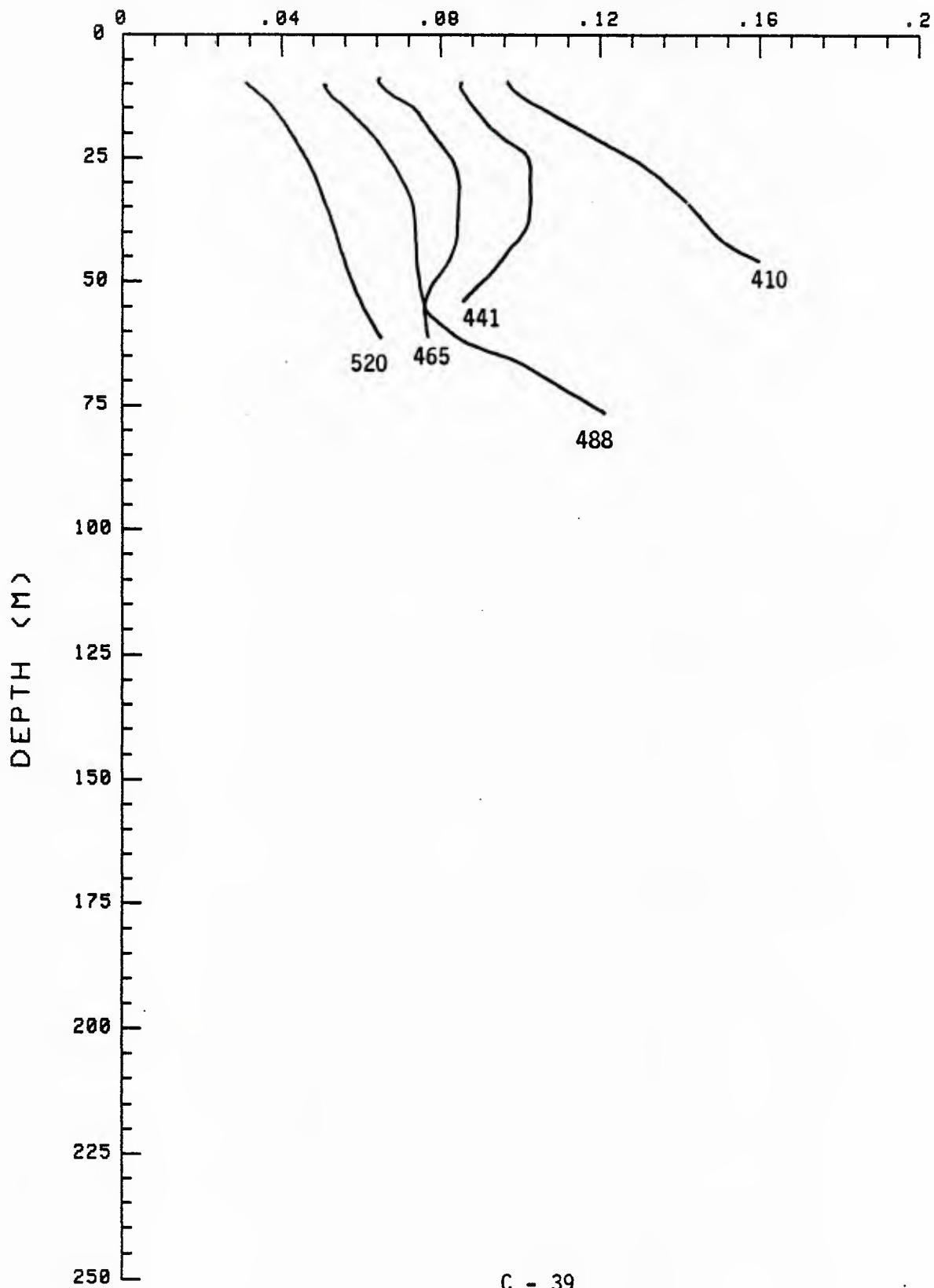


ODEX 3 STA 184 DN CAST 11-17-82 2339Z

LATITUDE 35.5320N

LONGITUDE 121.3110W

TOTAL DIFFUSE ATTENUATION - WATER ATTENUATION

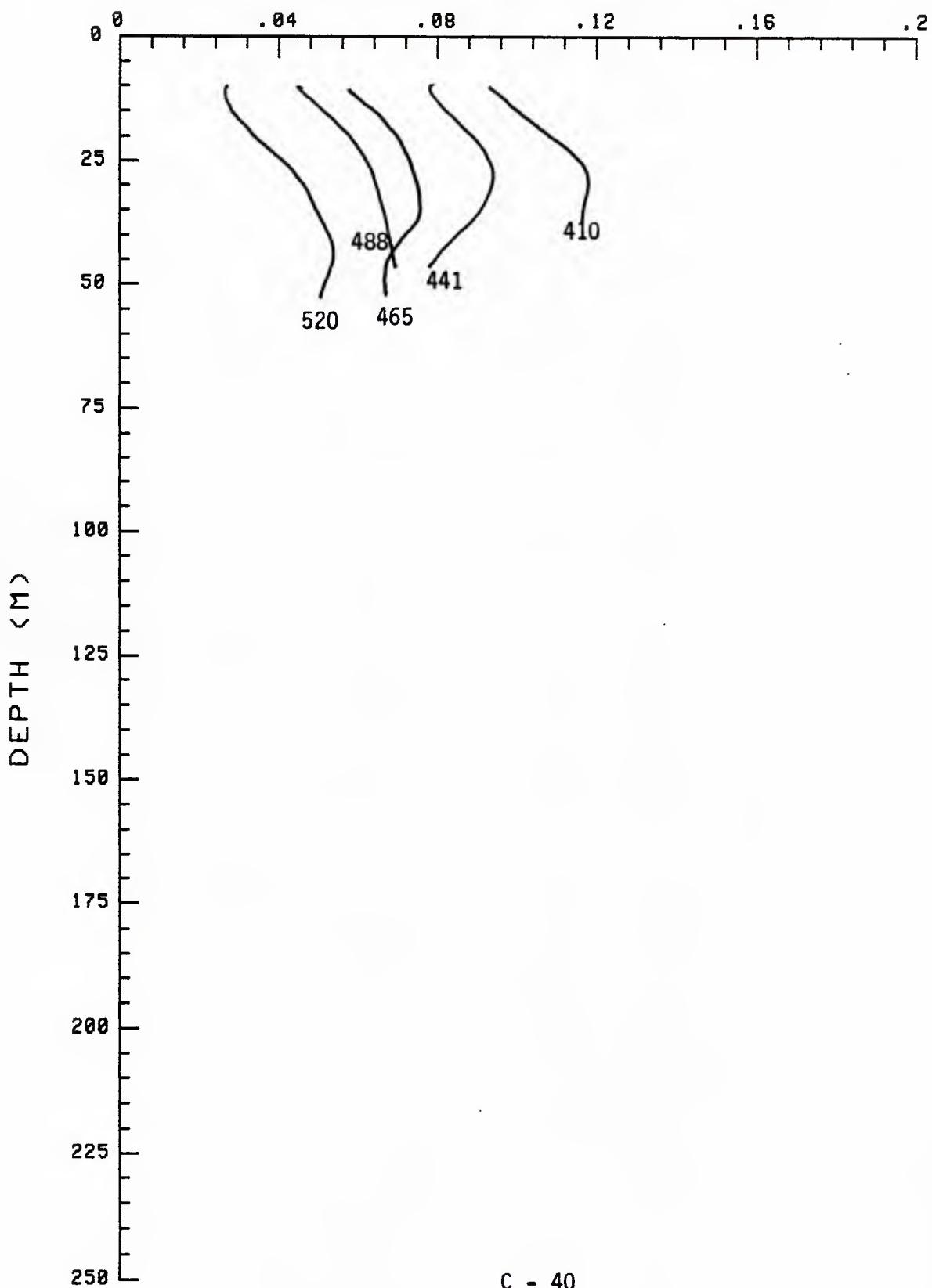


ODEX 3 STA 184 UP CAST 11-17-82 2352Z

LATITUDE 35.5320N

LONGITUDE 121.3110W

TOTAL DIFFUSE ATTENUATION - WATER ATTENUATION



Cast Label : ODEX 3 STA 7 DN CAST

Lat. 35.1940N Long. 121.3080W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Fluor V.	Beam Atten	410 nM	441 nM	465 nM	488 nM	520 nM	548 nM	568 nM	589 nM	625 nM	671 nM	694 nM	$\Sigma$ IRR
8.0	15.300	33.385	24.66	0.00	0.586	9.90+1	9.03+1	1.09+2	9.90+1	9.26+1	9.27+1	8.94+1	7.12+1	6.47+1	5.73+1	5.04+1	2.33+4
4.7	15.214	33.382	24.68	0.00	0.611	5.34+1	5.56+1	7.36+1	7.04+1	6.33+1	6.22+1	5.62+1	3.33+1	1.28+1	5.56+0	2.84+0	1.21+4
9.7	15.197	33.371	24.68	0.00	0.619	2.69+1	3.18+1	4.67+1	4.77+1	4.10+1	3.99+1	3.38+1	1.48+1	2.22+0	4.75-1	1.81-1	6.98+3
14.7	14.994	33.432	24.77	0.00	0.695	1.17+1	1.69+1	2.75+1	3.03+1	2.57+1	2.58+1	2.01+1	6.62+0	3.95-1	6.64-2	3.24-2	4.82+3
19.7	14.713	33.421	24.82	0.00	0.683	4.95+0	7.63+0	1.58+1	1.88+1	1.55+1	1.53+1	1.16+1	2.96+0	6.88-2		2.23+3	
24.4	14.408	33.353	24.83	0.00	0.637	2.06+0	3.59+0	7.69+0	1.04+1	9.00+0	8.52+0	6.41+0	1.32+0			1.20+3	
29.6	13.651	33.344	24.98	0.00	0.539	9.22-1	1.83+0	4.39+0	6.18+0	5.26+0	5.18+0	3.69+0	6.33-1			6.88+2	
34.7	13.247	33.428	25.12	0.00	0.496	4.09-1	9.90-1	2.66+0	3.95+0	3.28+0	3.04+0	2.87+0	2.85-1			4.09+2	
39.6	12.646	33.430	25.25	0.00	0.452	2.14-1	5.99-1	1.76+0	2.78+0	2.87+0	1.92+0	1.20+0	1.35-1			2.61+2	
44.6	12.479	33.463	25.31	0.00	0.448	1.12-1	3.75-1	1.21+0	1.93+0	1.37+0	1.25+0	7.89-1	6.29-2			1.74+2	
49.6	12.186	33.482	25.38	0.00	0.441		2.44-1	8.51-1	1.41+0	9.42-1	8.28-1	4.38-1	3.06-2			1.18+2	
54.6	11.885	33.514	25.46	0.00	0.432		1.59-1	6.15-1	1.05+0	6.51-1	5.72-1	2.59-1				8.25+1	
59.4	11.765	33.584	25.47	0.00	0.421		1.05-1	4.59-1	7.98-1	4.59-1	3.81-1	1.53-1				5.87+1	
64.4	11.446	33.545	25.57	0.00	0.418		7.83-2	3.37-1	5.99-1	3.13-1	2.62-1	7.88-2				4.16+1	
69.4	11.247	33.588	25.63	0.00	0.409			2.56-1	4.57-1	2.25-1	1.88-1					2.88+1	
74.4	10.834	33.568	25.69	0.00	0.408				1.95-1	3.58-1	1.53-1	1.24-1					2.87+1
79.4	10.745	33.632	25.76	0.00	0.408					1.53-1	2.68-1	1.84-1	8.65-2				1.54+1
84.3	10.513	33.577	25.76	0.00	0.397				1.89-1	2.04-1	6.68-2	4.97-2					1.89+1
89.3	10.257	33.699	25.90	0.00	0.391					8.84-2	1.54-1	4.48-2					7.49+0
94.3	10.119	33.690	25.91	0.00	0.389					7.40-2	1.17-1						4.95+0
99.4	10.034	33.665	25.91	0.00	0.389					5.83-2	8.74-2						3.77+0
104.3	10.991	32.723	25.81	0.00	0.387					4.67-2	6.39-2						2.85+0
109.3	9.814	33.717	25.98	0.00	0.388						4.55-2						1.25+0
114.2	9.778	33.710	25.99	0.00	0.389												
119.8	9.649	33.763	26.05	0.00	0.388												
124.3	9.620	33.766	26.05	0.00	0.385												
129.8	9.586	33.752	26.05	0.00	0.385												
134.2	9.566	33.756	26.06	0.00	0.388												
139.8	9.454	33.818	26.12	0.00	0.386												
143.9	9.344	33.840	26.16	0.00	0.385												
149.1	9.229	33.869	26.20	0.00	0.387												
154.1	9.202	33.926	26.25	0.00	0.387												
158.9	9.149	33.942	26.27	0.00	0.388												
163.9	9.099	33.945	26.28	0.00	0.391												
168.9	8.992	33.964	26.31	0.00	0.386												
173.8	8.912	33.971	26.33	0.00	0.383												
178.8	8.800	33.979	26.35	0.00	0.383												
183.8	8.719	33.984	26.37	0.00	0.384												
188.8	8.613	34.020	26.42	0.00	0.382												

Cast Label : ODEX 3 STA 7 UP CAST

Lat. 35.1940N Long. 121.3000W

Z-ave M	Temp deg C	Sal. ppt	Dens. &-T	Fluor V.	Beam Atten	410 nM	441 nM	465 nM	488 nM	528 nM	540 nM	560 nM	589 nM	625 nM	671 nM	694 nM	Irradiance uW/cm <sup>2</sup> /nM	-uW/cm <sup>2</sup> - Σ IRR
-0.3	13.814	37.826	28.42	0.00	0.212	1.17+2	1.05+2	1.25+2	1.11+2	1.05+2	1.04+2	1.01+2	8.24+1	7.76+1	6.99+1	6.21+1	2.69+4	
4.8	15.201	33.382	24.68	0.00	0.601	6.03+1	6.27+1	8.25+1	7.86+1	7.89+1	6.96+1	6.31+1	3.80+1	1.53+1	7.04+0	3.75+0	1.37+4	
9.7	15.098	33.486	24.73	0.00	0.645	3.00+1	3.56+1	5.17+1	5.26+1	4.56+1	4.43+1	3.76+1	1.68+1	2.63+0	5.90-1	2.28-1	7.78+3	
14.8	14.652	33.445	24.85	0.00	0.689	1.29+1	1.85+1	3.01+1	3.31+1	2.86+1	2.79+1	2.26+1	7.81+0	4.89-1	9.17-2	4.87-2	4.46+3	
19.7	14.247	33.633	25.08	0.00	0.649	5.49+0	8.49+0	1.66+1	1.97+1	1.73+1	1.78+1	1.35+1	3.46+0	8.26-2	2.48-2	2.49+3		
24.7	13.481	33.661	25.26	0.00	0.573	2.33+0	4.12+0	8.70+0	1.17+1	1.02+1	9.68+0	7.27+0	1.58+0				1.36+3	
29.6	12.996	33.596	25.31	0.00	0.503	1.04+0	2.17+0	5.18+0	7.20+0	6.04+0	5.79+0	4.13+0	7.02-1				7.92+2	
34.7	12.536	33.499	25.32	0.00	0.452	4.97-1	1.26+0	3.29+0	4.77+0	3.80+0	3.56+0	2.37+0	3.28-1				4.98+2	
39.7	12.369	33.514	25.37	0.00	0.443	2.58-1	7.73-1	2.22+0	3.35+0	2.50+0	2.28+0	1.40+0	1.48-1				3.19+2	
44.6	12.029	33.694	25.57	0.00	0.443	1.35-1	4.88-1	1.54+0	2.43+0	1.69+0	1.50+0	8.42-1	6.94-2				2.15+2	
49.6	11.894	33.517	25.46	0.00	0.433				3.26-1	1.11+0	1.79+0	1.18+0	1.02+0	5.14-1				1.48+2
54.5	11.545	33.669	25.64	0.00	0.417				2.16-1	8.03-1	1.34+0	8.20-1	6.93-1	3.14-1				1.04+2
59.4	11.442	33.518	25.54	0.00	0.413				1.44-1	5.92-1	1.01+0	5.61-1	4.82-1	1.86-1				7.44+1
64.5	11.293	33.573	25.61	0.00	0.410				1.01-1	4.44-1	7.67-1	3.99-1	3.39-1	1.02-1				5.40+1
69.5	11.201	33.569	25.63	0.00	0.413				7.31-2	3.47-1	5.86-1	2.78-1	2.24-1	5.45-2				3.93+1
74.4	10.822	33.640	25.75	0.00	0.401				5.08-2	2.68-1	4.46-1	1.93-1	1.61-1					2.80+1
79.4	10.669	33.687	25.81	0.00	0.400					1.89-1	3.41-1	1.28-1	1.10-1					1.93+1
84.4	10.424	33.788	25.94	0.00	0.397					1.55-1	2.68-1	9.17-2	8.15-2					1.48+1
89.3	10.237	33.789	25.91	0.00	0.392					1.10-1	1.97-1	5.37-2						9.42+0
94.2	10.115	33.679	25.98	0.00	0.390					9.44-2	1.48-1							6.30+0
99.3	10.007	33.731	25.96	0.00	0.390					7.08-2	1.10-1							4.70+0
104.3	9.895	33.789	25.97	0.00	0.389					5.33-2	8.02-2							3.46+0
109.2	9.805	33.755	26.02	0.00	0.389					5.36-2	5.65-2							2.81+0
114.2	9.743	33.751	26.02	0.00	0.388													
119.1	9.634	33.784	26.87	0.00	0.389													
124.2	9.613	33.789	26.86	0.00	0.385													
129.0	9.570	33.799	26.89	0.00	0.387													
134.1	9.516	33.837	26.13	0.00	0.385													
139.8	9.411	33.848	26.15	-0.01	0.384													
143.9	9.236	33.905	26.23	0.00	0.387													
149.0	9.227	33.874	26.20	0.00	0.386													
154.0	9.183	33.923	26.25	0.00	0.385													
159.0	9.127	33.950	26.28	0.00	0.387													
163.9	9.045	33.997	26.33	0.00	0.387													
168.8	8.928	34.007	26.36	0.00	0.388													
173.8	8.863	33.989	26.35	0.00	0.387													
178.8	8.758	33.976	26.36	0.00	0.384													
183.8	8.628	34.037	26.43	0.00	0.384													
188.8	8.535	34.051	26.45	0.00	0.384													

Cast Label : ODEX 3 STA 9 10-12-82 2314Z DN CAST

Lat. 35.1910N Long. 121.0680W

Z-ave	Temp	Sal.	Dens.	Fluor	Beam	410 nM	441 nM	465 nM	488 nM	520 nM	548 nM	560 nM	589 nM	625 nM	671 nM	694 nM	$\Sigma$ IRR
M	deg C	ppt	&-T	V.	Atten												
-0.3	16.094	24.650	17.79	0.00	27.631	1.14+2	1.12+2	1.35+2	1.21+2	1.13+2	1.12+2	1.07+2	8.61+1	8.13+1	7.55+1	6.62+1	2.86+4
4.8	15.295	33.628	24.85	0.00	0.624	5.17+1	5.67+1	7.66+1	7.51+1	6.94+1	6.86+1	6.18+1	3.58+1	1.19+1	4.65+0	2.23+0	1.27+4
9.7	15.154	33.455	24.75	0.00	0.658	2.45+1	2.98+1	4.35+1	4.60+1	4.16+1	4.08+1	3.42+1	1.39+1	1.68+0	3.35+1	1.29+1	6.73+3
14.9	14.877	33.583	24.85	0.00	0.655	1.81+1	1.43+1	2.38+1	2.71+1	2.42+1	2.37+1	1.89+1	5.34+0	2.53+1	5.13+2	2.67+2	3.68+3
19.8	14.565	33.493	24.91	0.00	0.671	4.22+0	6.28+0	1.24+1	1.52+1	1.35+1	1.38+1	9.75+0	2.15+0	4.80+2			1.87+3
24.6	14.124	33.439	24.96	0.00	0.634	1.84+0	2.94+0	6.25+0	8.44+0	7.49+0	7.24+0	5.25+0	9.27+1				9.87+2
29.7	13.587	33.355	25.00	0.00	0.566	7.93-1	1.43+0	3.37+0	4.86+0	4.25+0	4.05+0	2.82+0	3.98+1				5.38+2
34.7	12.586	33.244	25.12	0.00	0.474	3.54-1	7.54-1	1.97+0	2.99+0	2.51+0	2.33+0	1.53+0	1.70+1				3.89+2
39.5	12.967	33.366	25.14	0.00	0.514	1.64-1	4.27-1	1.22+0	1.94+0	1.55+0	1.39+0	8.63+1	7.50+2				1.88+2
44.6	12.753	33.451	25.24	0.00	0.491		2.46+1	7.88+1	1.38+0	9.92+1	8.56+1	5.02+1	3.53+2				1.17+2
49.6	12.470	33.483	25.32	0.00	0.478		1.41+1	5.12+1	9.84+1	6.48+1	5.36+1	2.92+1					7.53+1
54.6	12.849	33.537	25.45	0.00	0.436		8.16+2	3.46+1	6.44+1	4.26+1	3.38+1	1.71+1					5.01+1
59.6	11.688	33.512	25.58	0.00	0.426		4.99+2	2.49+1	4.68+1	2.87+1	2.19+1	9.93+2					3.44+1
64.5	11.441	33.606	25.61	0.00	0.465			1.74+1	3.43+1	1.94+1	1.35+1	5.44+2					2.26+1
69.4	11.178	33.634	25.68	0.00	0.422				1.23+1	2.52+1	1.30+1	7.98+2					1.48+1
74.4	11.136	33.586	25.65	0.00	0.418				9.21+2	1.87+1	9.15+2						9.78+0
79.3	11.127	33.586	25.65	0.00	0.416				6.82+2	1.40+1	6.41+2						7.13+0
84.4	11.078	33.616	25.69	0.00	0.421				5.02+2	1.05+1	4.28+2						5.17+0
89.3	11.043	33.611	25.69	0.00	0.427					7.63+2							2.10+0
94.3	10.966	33.641	25.73	0.00	0.425				5.00+2								1.37+0
99.4	10.853	33.674	25.77	0.00	0.416												
104.3	10.659	33.718	25.84	0.00	0.472												
109.3	10.633	33.714	25.84	0.00	0.476												
114.3	10.591	33.723	25.86	0.00	0.453												
119.1	10.507	33.737	25.88	0.00	0.461												
124.1	10.328	33.797	25.96	0.00	0.486												
129.8	10.383	33.778	25.95	0.00	0.476												
134.1	10.272	33.795	25.97	0.00	0.531												
139.8	10.161	33.810	26.00	0.00	0.542												
144.8	10.087	33.842	26.04	0.00	0.551												
149.1	10.010	33.861	26.06	0.00	0.551												
154.1	9.859	33.913	26.13	0.00	0.539												
159.9	9.781	33.932	26.16	0.00	0.540												
163.8	9.693	33.948	26.18	0.00	0.526												
168.9	9.672	33.939	26.18	0.00	0.519												
173.9	9.621	33.962	26.21	0.00	0.527												
178.8	9.591	33.963	26.21	0.00	0.514												
183.9	9.546	33.978	26.23	0.00	0.505												
188.8	9.489	33.993	26.25	0.00	0.493												

Cast Label : ODEX 3 STA 9 10-12-82 23452 UP CAST .

Lat. 35.1918N Long. 121.8688W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Fluor V.	Beam Atten	410 nm	441 nm	465 nm	488 nm	520 nm	540 nm	560 nm	589 nm	625 nm	671 nm	694 nm	$\Sigma$ IRR	$-\text{W/cm}^2:$
-0.3	15.707	35.458	24.17	0.00	0.368	7.37+1	7.51+1	9.54+1	8.90+1	8.87+1	8.98+1	8.72+1	7.21+1	7.02+1	6.78+1	5.87+1	2.24+4	
4.8	15.209	33.387	24.69	0.00	0.638	3.81+1	4.16+1	5.65+1	5.55+1	5.11+1	5.06+1	4.55+1	2.57+1	9.24+0	3.70+0	1.84+0	9.41+3	
9.7	15.862	33.406	24.73	0.00	0.645	1.66+1	2.14+1	3.21+1	3.38+1	3.07+1	3.08+1	2.52+1	1.03+1	1.23+0	2.47-1	9.73-2	4.94+3	
14.8	14.851	33.366	24.75	0.00	0.647	7.36+0	1.82+1	1.75+1	1.98+1	1.77+1	1.72+1	1.36+1	3.81+0	1.69-1	2.74-2		2.62+3	
19.7	14.374	33.425	24.89	0.00	0.669	3.25+0	4.74+0	8.81+0	1.11+1	9.74+0	9.06+0	6.74+0	1.53+0				1.34+3	
24.6	13.775	33.336	24.95	0.00	0.618	1.36+0	2.21+0	4.64+0	6.16+0	5.40+0	5.18+0	3.67+0	6.38-1				7.15+2	
29.6	12.546	33.149	25.05	0.00	0.474	6.19-1	1.12+0	2.57+0	3.61+0	3.88+0	2.94+0	1.96+0	2.69-1				3.96+2	
34.7	12.676	33.273	25.12	0.00	0.456	3.01-1	6.28-1	1.57+0	2.28+0	1.84+0	1.72+0	1.05+0	1.18-1				2.33+2	
39.6	12.808	33.321	25.13	0.00	0.489	1.53-1	3.77-1	1.02+0	1.52+0	1.17+0	1.06+0	6.03-1	5.02-2				1.47+2	
44.6	12.241	33.485	25.37	0.00	0.457		2.33-1	6.76-1	1.85+0	7.63-1	6.95-1	3.51-1					9.35+1	
49.6	11.921	33.496	25.44	0.00	0.435			1.48-1	4.69-1	7.40-1	5.01-1	4.51-1	2.03-1				6.25+1	
54.6	11.648	33.498	25.49	0.00	0.419			9.81-2	3.38-1	5.33-1	3.39-1	2.92-1	1.05-1				4.23+1	
59.5	11.566	33.508	25.51	0.00	0.456			6.18-2	2.32-1	3.89-1	2.28-1	1.92-1	5.69-2				2.88+1	
64.4	11.351	33.576	25.61	0.00	0.449				1.68-1	2.85-1	1.55-1	1.31-1					1.84+1	
69.4	11.183	33.578	25.64	0.00	0.417					1.24-1	2.88-1	9.91-2	9.14-2					1.30+1
74.4	11.169	33.577	25.64	0.00	0.415					8.99-2	1.51-1	6.20-2	6.16-2					9.11+0
79.5	11.128	33.567	25.64	0.00	0.413					6.33-2	1.09-1							4.50+0
84.3	11.033	33.617	25.78	0.00	0.422					5.13-2	7.56-2							3.29+0
89.2	10.960	33.641	25.73	0.00	0.428						4.48-2							1.21+0
94.2	10.888	33.632	25.73	0.00	0.416													
99.3	10.663	33.697	25.82	0.00	0.439													
104.2	10.625	33.708	25.84	0.00	0.455													
109.3	10.603	33.699	25.84	0.00	0.454													
114.2	10.548	33.712	25.86	0.00	0.447													
119.1	10.395	33.747	25.91	0.00	0.462													
124.1	10.300	33.774	25.95	0.00	0.480													
129.1	10.257	33.789	25.97	0.00	0.495													
134.0	10.165	33.809	26.00	0.00	0.538													
139.8	10.032	33.849	26.07	0.00	0.549													
144.8	9.984	33.854	26.06	0.00	0.545													
149.1	9.842	33.903	26.12	0.00	0.539													
154.0	9.733	33.938	26.17	0.00	0.548													
158.9	9.699	33.926	26.17	0.00	0.529													
163.9	9.669	33.945	26.19	0.00	0.525													
168.9	9.647	33.943	26.19	0.00	0.524													
173.7	9.600	33.954	26.21	0.00	0.522													
178.9	9.559	33.969	26.22	0.00	0.503													
183.8	9.514	33.975	26.24	0.00	0.503													
188.8	9.435	33.993	26.26	0.00	0.495													

Cast Label : ODEX 3 STA 14 10-14-82 2240Z DN CAST

Lat. 34.5898N Long. 121.1383W

Z-ave	Temp	Sal.	Dens.	Fluor	Beam	-----	Irradiance uW/cm <sup>2</sup> /nM	-----	uW/cm <sup>2</sup> :									
M	deg C	ppt	&T	V.	Atten	410 nM	441 nM	465 nM	488 nM	520 nM	540 nM	560 nM	589 nM	625 nM	671 nM	694 nM	$\Sigma$ IRR	
8.3	16.013	32.758	24.02	0.00	1.011	8.15+1	7.33+1	8.61+1	7.62+1	6.87+1	6.72+1	6.33+1	4.87+1	4.14+1	3.52+1	2.93+1	1.69+4	
5.2	16.022	33.288	24.43	0.00	0.548	4.82+1	4.86+1	6.06+1	5.58+1	4.66+1	4.45+1	3.87+1	2.14+1	7.32+0	2.80+0	1.37+0	9.20+3	
10.3	15.880	33.356	24.51	0.00	0.543	2.89+1	3.24+1	4.31+1	4.12+1	3.19+1	2.97+1	2.39+1	9.83+0	1.30+0	2.66-1	8.97-2	5.87+3	
15.2	15.744	33.379	24.56	0.00	0.553	1.53+1	2.11+1	3.04+1	3.05+1	2.22+1	2.03+1	1.52+1	4.38+0	2.36-1	3.86-2		3.88+3	
20.3	15.700	33.378	24.56	0.00	0.544	8.29+0	1.35+1	2.11+1	2.23+1	1.55+1	1.40+1	9.17+0	2.13+0	3.88-2		2.59+3		
25.1	15.676	33.364	24.57	0.00	0.541	4.49+0	7.95+0	1.44+1	1.59+1	1.85+1	8.78+0	5.73+0	1.06+0				1.69+3	
30.2	15.629	33.371	24.58	0.00	0.550	2.48+0	4.87+0	9.16+0	1.10+1	6.79+0	5.83+0	3.58+0	5.29-1				1.09+3	
35.2	15.214	33.326	24.64	0.00	0.575	1.22+0	2.85+0	5.93+0	7.44+0	4.68+0	4.02+0	2.35+0	2.85-1				7.11+2	
40.1	14.636	33.525	24.92	0.00	0.547	6.24-1	1.66+0	3.76+0	5.00+0	3.12+0	2.66+0	1.50+0	1.51-1				4.57+2	
45.0	13.581	33.228	24.91	0.00	0.473	3.15-1	9.84-1	2.44+0	3.39+0	1.99+0	1.65+0	8.59-1	7.50-2				2.91+2	
50.1	13.573	33.347	25.00	0.00	0.469	1.59-1	5.89-1	1.60+0	2.31+0	1.28+0	1.03+0	4.91-1	3.42-2				1.87+2	
55.0	12.927	33.558	25.29	0.00	0.478		3.51-1	1.86+0	1.58+0	8.28-1	6.59-1	2.81-1					1.20+2	
60.0	12.672	33.453	25.26	0.00	0.471		2.15-1	6.98-1	1.09+0	5.38-1	4.19-1	1.59-1					7.85+1	
64.9	12.366	33.545	25.39	0.00	0.438		1.30-1	4.68-1	7.51-1	3.58-1	2.72-1	7.99-2					5.17+1	
69.9	12.139	33.496	25.48	0.00	0.493		7.46-2	3.16-1	5.22-1	2.25-1	1.74-1						3.32+1	
75.0	11.993	33.589	25.44	0.00	0.493		4.84-2	2.17-1	3.69-1	1.47-1	1.19-1						2.28+1	
79.8	11.874	33.528	25.47	0.00	0.442			1.55-1	2.64-1	9.63-2	8.25-2						1.51+1	
84.9	11.756	33.551	25.51	0.00	0.434				1.08-1	1.90-1	6.37-2	5.09-2						1.04+1
89.7	11.492	33.646	25.63	0.00	0.433					7.59-2	1.35-1	3.90-2						6.52+0
94.9	11.318	33.558	25.59	0.00	0.414					5.12-2	9.29-2							3.76+0
99.8	10.931	33.603	25.70	0.00	0.396						5.57-2							1.53+0
104.8	10.620	33.661	25.80	0.00	0.391													
109.7	10.401	33.603	25.80	0.00	0.389													
114.7	10.200	33.698	25.90	0.00	0.386													
119.6	10.869	33.683	25.92	0.00	0.386													
124.6	9.971	33.698	25.94	0.00	0.385													
129.6	9.814	33.697	25.97	0.00	0.384													
134.6	9.587	33.785	26.00	0.00	0.383													
139.5	9.321	33.794	26.13	0.00	0.383													

PREMATURE END OF DATA FILE

Cast Label : ODEX 3 STA 19 18-15-82 17052 DN CAST

Lat. 34.5878N Long. 122.4258W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Fluor V.	Beam Atten	410 nM	441 nM	465 nM	488 nM	520 nM	540 nM	589 nM	625 nM	671 nM	694 nM	$\Sigma$ IRR -W/cm <sup>2</sup> -	
-0.2	15.379	29.734	21.84	0.00	27.631	8.24+1	7.64+1	9.14+1	8.15+1	7.69+1	7.63+1	7.35+1	5.96+1	5.65+1	5.16+1	4.52+1	1.96+4
4.8	16.453	33.358	24.38	0.00	0.567	4.88+1	4.96+1	6.38+1	6.02+1	5.26+1	5.14+1	4.57+1	2.65+1	1.04+1	4.47+0	2.37+0	1.03+4
9.7	16.454	33.353	24.38	0.00	0.566	2.98+1	3.28+1	4.50+1	4.44+1	3.65+1	3.49+1	2.88+1	1.24+1	1.87+0	4.18-1	1.53-1	6.48+3
14.9	16.454	33.363	24.39	0.00	0.566	1.68+1	2.15+1	3.15+1	3.26+1	2.51+1	2.36+1	1.80+1	5.45+0	3.22-1	3.22-2		4.23+3
19.7	16.455	33.365	24.39	0.00	0.566	9.01+0	1.38+1	2.16+1	2.35+1	1.71+1	1.58+1	1.88+1	2.55+0	4.22-2			2.78+3
24.6	16.326	33.389	24.44	0.00	0.575	4.85+0	7.92+0	1.43+1	1.63+1	1.15+1	9.99+0	6.45+0	1.23+0				1.77+3
29.6	16.211	33.406	24.48	0.00	0.546	2.51+0	4.57+0	8.63+0	1.88+1	7.18+0	6.41+0	3.99+0	6.14-1				1.10+3
34.7	16.185	33.384	24.47	0.00	0.526	1.28+0	2.68+0	5.38+0	6.91+0	4.66+0	4.11+0	2.43+0	3.86-1				6.88+2
39.7	16.131	33.369	24.47	0.00	0.541	6.28-1	1.42+0	3.20+0	4.33+0	2.91+0	2.56+0	1.42+0	1.49-1				4.18+2
44.7	16.126	33.369	24.47	0.00	0.537	3.18-1	8.88-1	1.95+0	2.74+0	1.81+0	1.58+0	8.37-1	7.52-2				2.50+2
49.6	14.442	34.258	25.52	0.00	0.496	1.68-1	4.66-1	1.23+0	1.88+0	1.14+0	9.85-1	4.89-1	3.71-2				1.56+2
54.7	13.153	33.619	25.30	0.00	0.437		2.84-1	8.24-1	1.25+0	7.45-1	6.27-1	2.79-1					1.00+2
59.4	12.893	33.461	25.22	0.00	0.416		1.82-1	5.86-1	9.20-1	5.08-1	4.17-1	1.61-1					6.96+1
64.5	12.418	33.437	25.30	0.00	0.489		1.22-1	4.26-1	6.98-1	3.55-1	2.87-1	9.68-2					4.99+1
69.5	11.935	33.488	25.42	0.00	0.397		7.69-2	3.19-1	5.31-1	2.49-1	1.87-1						3.44+1
74.4	11.617	33.499	25.50	0.00	0.397		5.52-2	2.37-1	4.02-1	1.65-1	1.23-1						2.49+1
79.4	11.276	33.519	25.58	0.00	0.398			1.78-1	3.88-1	1.12-1	7.32-2						1.78+1
84.3	10.971	33.534	25.64	0.00	0.394			1.45-1	2.40-1	7.41-2							1.19+1
89.2	10.629	33.557	25.72	0.00	0.391			1.09-1	1.89-1	5.39-2							9.16+0
94.1	10.333	33.596	25.88	0.00	0.388			8.51-2	1.44-1								5.97+0
99.3	10.891	33.581	25.83	0.00	0.386			6.88-2	1.03-1								4.44+0
104.3	9.984	33.598	25.86	0.00	0.384			4.01-2	6.17-2								2.64+0
109.2	9.769	33.647	25.94	0.00	0.386				3.29-2								9.03-1
114.2	9.629	33.663	25.97	0.00	0.386												
119.1	9.569	33.663	25.98	0.00	0.384												
124.2	9.444	33.674	26.01	0.00	0.384												
129.1	9.327	33.718	26.07	0.00	0.385												
134.2	9.215	33.753	26.11	0.00	0.383												
139.8	9.178	33.738	26.11	0.00	0.383												
143.9	9.037	33.781	26.16	0.00	0.383												
149.1	8.968	33.787	26.18	0.00	0.383												
153.9	8.875	33.826	26.22	0.00	0.382												
158.9	8.785	33.846	26.25	0.00	0.382												

PREMATURE END OF DATA FILE

Cast Label : ODEX 3 STA 21 DN CAST 10-16-82 0046Z

Lat. 34.586N Long. 123.143EW

Z-ave M	Temp deg C	Sal. ppt	Dens. &-T	Fluor V.	Beam Atten	410 nm	441 nm	465 nm	488 nm	520 nm	540 nm	560 nm	589 nm	625 nm	671 nm	694 nm	$\Sigma$ IRR
-8.3	16.555	28.817	20.26	0.00	0.709	2.78+1	2.94+1	3.87+1	3.71+1	3.77+1	3.80+1	3.74+1	3.84+1	3.14+1	3.28+1	2.74+1	9.54+3
4.8	16.661	32.946	24.02	0.00	0.486	2.48+1	2.58+1	3.38+1	3.10+1	2.62+1	2.49+1	2.16+1	1.15+1	3.64+0	1.53+0	6.75-1	5.82+3
9.7	16.249	33.111	24.24	0.00	0.497	1.88+1	2.05+1	2.65+1	2.52+1	1.88+1	1.71+1	1.34+1	4.67+0	5.55-1	1.87-1	3.34-2	3.50+3
14.9	16.111	32.937	24.14	0.00	0.502	1.28+1	1.51+1	2.84+1	1.99+1	1.35+1	1.15+1	7.80+0	2.04+0	8.00-2			2.47+3
19.7	15.897	32.944	24.19	0.00	0.507	8.00+0	1.04+1	1.51+1	1.51+1	8.99+0	7.21+0	4.57+0	8.87-1				1.78+3
24.7	15.791	32.899	24.18	0.00	0.494	5.12+0	7.10+0	1.10+1	1.11+1	5.85+0	4.65+0	2.66+0	3.85-1				1.16+3
29.5	15.577	32.957	24.27	0.00	0.511	3.41+0	5.01+0	7.60+0	7.92+0	3.93+0	2.99+0	1.57+0	1.77-1				7.93+2
34.6	15.116	33.004	24.41	0.00	0.568	2.02+0	3.17+0	5.02+0	5.44+0	2.60+0	1.94+0	9.57-1	8.32-2				5.19+2
39.6	15.878	33.048	24.45	0.00	0.575	1.15+0	1.91+0	3.18+0	3.60+0	1.67+0	1.22+0	5.64-1	4.21-2				3.27+2
44.7	14.659	33.043	24.54	0.00	0.568	6.32-1	1.12+0	1.96+0	2.32+0	1.05+0	7.58-1	3.30-1					2.01+2
49.6	13.274	33.003	24.79	0.00	0.528	3.29-1	6.35-1	1.19+0	1.48+0	6.73-1	4.70-1	1.98-1					1.23+2
54.6	12.224	33.110	25.08	0.00	0.498	1.65-1	3.56-1	7.29-1	9.52-1	4.21-1	2.89-1	1.11-1					7.51+1
59.6	11.626	32.928	25.05	0.00	0.465			2.07-1	4.68-1	6.34-1	2.70-1	1.78-1	6.34-2				4.63+1
64.4	11.178	32.922	25.13	0.00	0.438			1.32-1	3.16-1	4.39-1	1.79-1	1.89-1					3.00+1
69.6	11.098	32.928	25.14	0.00	0.431			8.23-2	2.14-1	3.14-1	1.14-1	6.75-2					2.03+1
74.5	11.372	32.953	25.17	0.00	0.423			5.93-2	1.62-1	2.31-1	7.79-2						1.38+1
79.3	10.953	32.993	25.22	0.00	0.403				1.14-1	1.74-1	4.97-2						8.74+0
84.4	10.865	33.023	25.26	0.00	0.397				8.61-2	1.32-1							5.67+0
89.4	10.117	32.983	25.36	0.00	0.394				6.96-2	1.82-1							4.44+0
94.4	9.865	32.974	25.40	0.00	0.388				5.61-2	7.84-2							3.48+0
99.3	9.883	33.094	25.49	0.00	0.388				4.38-2	5.90-2							2.65+0
104.3	9.734	33.107	25.52	0.00	0.385												
109.2	9.849	33.248	25.61	0.00	0.387												
114.2	10.055	33.295	25.61	0.00	0.384												

PREMATURE END OF DATA FILE

Cast Label : ODEX 3 STA 21 UP CAST 10-16-82 00582

Lat. 34.5864N Long. 123.1436W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Fluor V.	Beam Atten	410 nm	441 nm	465 nm	488 nm	520 nm	548 nm	568 nm	589 nm	625 nm	671 nm	694 nm	$\Sigma$ IRR	-W/cm <sup>2</sup> -
-0.3	16.222	32.165	23.52	0.00	0.289	1.39+1	1.50+1	2.02+1	1.99+1	2.12+1	2.16+1	2.17+1	1.78+1	1.97+1	2.37+1	1.94+1	5.59+3	
4.7	16.597	32.939	24.03	0.00	0.469	1.22+1	1.34+1	1.68+1	1.56+1	1.31+1	1.19+1	1.02+1	5.33+0	1.91+0	9.18-1	4.22-1	2.49+3	
9.7	16.380	32.946	24.08	0.00	0.476	9.11+0	9.98+0	1.33+1	1.23+1	8.87+0	7.55+0	5.75+0	2.16+0	2.65-1	4.76-2		1.67+3	
14.8	15.945	32.921	24.16	0.00	0.503	6.45+0	7.45+0	9.87+0	9.65+0	6.12+0	5.15+0	3.51+0	9.36-1				1.18+3	
19.7	15.901	32.923	24.17	0.00	0.487	4.52+0	5.62+0	7.75+0	7.50+0	4.43+0	3.59+0	2.22+0	4.33-1				8.69+2	
24.7	15.488	33.028	24.35	0.00	0.499	2.98+0	4.81+0	5.74+0	5.70+0	3.03+0	2.36+0	1.31+0	1.84-1				6.12+2	
29.6	15.120	33.004	24.41	0.00	0.533	1.89+0	2.74+0	4.11+0	4.22+0	2.11+0	1.68+0	8.12-1	8.72-2				4.27+2	
34.7	15.023	33.001	24.43	0.00	0.561	1.20+0	1.84+0	2.85+0	3.00+0	1.44+0	1.07+0	5.08-1	4.04-2				2.91+2	
39.6	14.949	32.977	24.43	0.00	0.574	7.82-1	1.14+0	1.87+0	2.05+0	9.53-1	6.98-1	3.02-1					1.89+2	
44.6	13.475	32.964	24.72	0.00	0.562	3.95-1	6.98-1	1.20+0	1.37+0	6.27-1	4.47-1	1.81-1					1.21+2	
49.6	12.630	33.002	24.92	0.00	0.506	2.17-1	4.13-1	7.53-1	9.01-1	4.02-1	2.92-1	9.77-2					7.59+1	
54.6	11.974	32.822	24.91	0.00	0.492	1.19-1	2.50-1	4.83-1	6.02-1	2.56-1	1.86-1	5.30-2					4.83+1	
59.5	11.612	32.861	25.00	0.00	0.463		1.55-1	3.12-1	4.09-1	1.60-1	1.14-1						2.93+1	
64.4	11.147	32.985	25.12	0.00	0.434		1.01-1	2.24-1	2.97-1	1.05-1	8.47-2						2.07+1	
69.6	11.118	32.918	25.14	0.00	0.431		6.48-2	1.55-1	2.11-1	6.28-2							1.29+1	
74.5	11.070	32.973	25.19	0.00	0.422		4.89-2	1.15-1	1.59-1	4.36-2							9.57+0	
79.4	10.927	32.997	25.23	0.00	0.413			8.75-2	1.19-1								5.33+0	
84.4	10.906	33.059	25.28	0.00	0.397			6.87-2	8.90-2								4.06+0	
89.4	10.122	32.972	25.35	0.00	0.395				5.01-2	7.15-2							3.14+0	
94.3	9.981	32.963	25.38	0.00	0.387					4.86-2							1.34+0	
99.3	9.816	33.098	25.50	0.00	0.387													
104.2	9.707	33.119	25.54	0.00	0.384													
109.3	9.861	33.239	25.60	0.00	0.383													
110.8	9.872	33.252	25.61	0.00	0.384													

PREMATURE END OF DATA FILE

Cast Label : ODEX 3 STA 25 UP CAST 10-16-82 21342

Lat. 35.8965N Long. 124.4262W

Z-ave	Temp	Sal.	Dens.	Fluor	Beam	418 nM	441 nM	465 nM	488 nM	520 nM	540 nM	560 nM	589 nM	625 nM	671 nM	694 nM	$\Sigma$ IRR
-8.3	17.317	28.314	28.32	0.00	0.215	1.44+2	1.31+2	1.56+2	1.38+2	1.38+2	1.29+2	1.25+2	1.01+2	9.67+1	8.74+1	3.26+4	
4.8	17.729	33.033	23.83	0.00	0.438	1.58+2	1.29+2	1.43+2	1.20+2	8.56+1	7.73+1	6.48+1	3.42+1	1.23+1	4.96+0	1.97+4	
9.7	17.547	33.034	23.88	0.00	0.443	1.21+2	1.09+2	1.23+2	1.05+2	6.68+1	5.82+1	4.39+1	1.69+1	2.15+0	4.19-1	1.52+4	
14.8	17.500	33.032	23.89	0.00	0.441	9.55+1	9.07+1	1.05+2	9.10+1	5.28+1	4.45+1	3.88+1	8.32+0	4.41-1	4.28-2	1.23+4	
19.7	17.427	33.063	23.93	0.00	0.447	7.34+1	7.47+1	8.94+1	7.92+1	4.25+1	3.49+1	2.24+1	4.60+0	9.45-2		9.97+3	
24.7	17.515	33.116	23.95	0.00	0.444	5.66+1	6.14+1	7.59+1	6.89+1	3.40+1	2.73+1	1.63+1	2.58+0			8.16+3	
29.6	17.588	33.160	23.97	0.00	0.439	4.41+1	5.09+1	6.47+1	6.00+1	2.75+1	2.15+1	1.17+1	1.53+0			6.73+3	
34.6	17.497	33.186	24.01	0.00	0.439	3.45+1	4.21+1	5.51+1	5.21+1	2.18+1	1.65+1	7.96+0	8.51-1			5.54+3	
39.5	17.216	32.938	23.88	0.00	0.452	2.73+1	3.46+1	4.63+1	4.44+1	1.78+1	1.22+1	5.47+0	4.81-1			4.52+3	
44.5	15.871	32.888	24.33	0.00	0.503	1.99+1	2.66+1	3.78+1	3.66+1	1.32+1	8.78+0	3.76+0	2.81-1			3.53+3	
49.6	14.112	33.888	24.69	0.00	0.481	1.19+1	1.90+1	2.79+1	2.87+1	9.58+0	6.38+0	2.54+0	1.62-1			2.59+3	
54.6	13.567	32.923	24.67	0.00	0.498	7.18+0	1.28+1	2.08+1	2.15+1	6.73+0	4.51+0	1.78+0	9.50-2			1.83+3	
59.6	13.805	32.924	24.79	0.00	0.488	3.81+0	7.41+0	1.36+1	1.54+1	4.56+0	2.98+0	1.03+0	4.48-2			1.21+3	
64.4	12.694	33.010	24.91	0.00	0.489	2.13+0	4.63+0	8.67+0	1.08+1	3.21+0	2.07+0	6.74-1				8.03+2	
69.4	12.317	32.952	24.94	0.00	0.452	1.25+0	3.00+0	6.00+0	7.53+0	2.26+0	1.43+0	4.30-1				5.48+2	
74.4	12.129	32.937	24.97	0.00	0.433	7.17-1	1.94+0	4.14+0	5.37+0	1.55+0	9.55-1	2.59-1				3.75+2	
79.4	11.978	32.992	25.04	0.00	0.417	4.36-1	1.31+0	2.98+0	3.97+0	1.09+0	6.60-1	1.62-1				2.67+2	
84.3	12.202	32.965	24.97	0.00	0.396	2.62-1	9.23-1	2.24+0	3.84+0	7.76-1	4.52-1	8.73-2				1.97+2	
89.4	12.228	33.151	25.11	0.00	0.388	1.77-1	6.90-1	1.74+0	2.40+0	5.61-1	3.19-1	4.99-2				1.51+2	
94.3	11.656	33.386	25.48	0.00	0.383	1.20-1	5.27-1	1.38+0	1.94+0	4.08-1	2.28-1					1.17+2	
99.4	11.274	33.115	25.26	0.00	0.385	9.82-2	4.18-1	1.12+0	1.58+0	3.89-1	1.72-1					9.42+1	
104.3	11.888	33.079	25.27	0.00	0.386		3.28-1	9.28-1	1.38+0	2.26-1	1.24-1					7.47+1	
109.3	10.838	33.080	25.31	0.00	0.384		2.68-1	7.53-1	1.07+0	1.70-1	8.72-2					6.05+1	
114.2	10.443	33.898	25.39	0.00	0.384		2.07-1	6.18-1	8.88-1	1.24-1	6.48-2					4.92+1	
119.1	10.365	33.157	25.45	0.00	0.383		1.65-1	5.10-1	7.36-1	8.66-2	5.24-2					4.81+1	
124.1	10.207	33.230	25.54	0.00	0.382		1.30-1	4.15-1	6.88-1	6.46-2						3.17+1	
129.8	10.030	33.338	25.65	0.00	0.382		1.00-1	3.41-1	5.00-1							2.45+1	
134.1	9.817	33.348	25.70	0.00	0.381		7.81-2	2.71-1	4.12-1							1.98+1	
139.8	9.781	33.413	25.75	0.00	0.388		6.16-2	2.28-1	3.38-1							1.62+1	
143.9	9.685	33.488	25.84	0.00	0.382		4.82-2	1.74-1	2.75-1							1.30+1	
149.1	9.478	33.568	25.92	0.00	0.382			1.44-1	2.21-1							9.47+0	
154.0	9.294	33.618	25.99	0.00	0.382			1.12-1	1.76-1							7.46+0	
158.9	9.215	33.642	26.02	0.00	0.382			8.78-2	1.38-1							5.86+0	
163.9	9.119	33.713	26.09	0.00	0.382			6.79-2	1.08-1							4.56+0	
168.9	9.081	33.756	26.13	0.00	0.382			5.39-2	8.33-2							3.56+0	
173.8	8.979	33.808	26.19	0.00	0.383				6.09-2							1.68+0	
178.9	8.961	33.808	26.19	0.00	0.382				4.01-2							1.10+0	
183.8	8.903	33.848	26.24	0.00	0.382												
188.8	8.850	33.873	26.26	0.00	0.382												

Cast Label : ODEX 3 STA 38 DN CAST 10-17-82 1830Z

Lat. 34.2977N Long. 123.4802W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Fluor V.	Bean Atten	418 nM	441 nM	465 nM	488 nM	520 nM	548 nM	589 nM	625 nM	671 nM	694 nM	Irradiance uW/cm2/nM	-uW/cm2- $\Sigma$ IRR
-0.3	17.218	28.197	28.25	0.00	0.332	2.17+2	2.05+2	2.45+2	2.19+2	2.07+2	2.06+2	2.00+2	1.64+2	1.55+2	1.41+2	1.24+2	5.32+4
4.8	16.681	32.978	24.03	0.00	0.478	1.63+2	1.61+2	1.98+2	1.83+2	1.55+2	1.58+2	1.34+2	7.83+1	2.97+1	1.30+1	6.76+0	3.12+4
9.7	16.665	32.954	24.02	0.00	0.468	1.20+2	1.28+2	1.62+2	1.51+2	1.17+2	1.09+2	8.93+1	3.84+1	5.67+0	1.11+0	3.59-1	2.23+4
14.8	16.642	32.965	24.04	0.00	0.469	9.13+1	1.01+2	1.31+2	1.25+2	8.47+1	7.61+1	5.62+1	1.72+1	9.25-1	1.08-1	3.71-2	1.64+4
19.7	16.637	32.945	24.02	0.00	0.478	6.83+1	7.94+1	1.06+2	1.02+2	6.40+1	5.59+1	3.84+1	9.35+0	2.36-1	2.73-2		1.26+4
24.7	16.634	32.954	24.03	0.00	0.469	5.12+1	6.25+1	8.52+1	8.38+1	4.66+1	3.89+1	2.42+1	4.11+0	4.53-2			9.54+3
29.6	16.635	32.962	24.04	0.00	0.468	3.71+1	4.88+1	6.74+1	6.78+1	3.45+1	2.88+1	1.61+1	2.13+0				7.27+3
34.7	16.642	32.961	24.04	0.00	0.469	2.68+1	3.63+1	5.22+1	5.33+1	2.47+1	1.94+1	9.93+0	1.88+0				5.42+3
39.6	14.986	32.598	24.13	0.00	8.585	1.65+1	2.55+1	3.83+1	4.02+1	1.76+1	1.32+1	6.12+0	5.74-1				3.85+3
44.6	12.986	32.912	24.78	0.00	0.522	8.65+8	1.58+1	2.58+1	2.87+1	1.23+1	8.58+0	3.86+0	3.03-1				2.56+3
49.6	12.691	32.926	24.85	0.00	0.514	4.27+0	8.59+0	1.64+1	1.94+1	7.66+0	5.54+0	2.35+0	1.68-1				1.59+3
54.6	12.291	32.966	24.96	0.00	0.514	2.16+0	4.88+0	9.49+0	1.28+1	5.07+0	3.68+0	1.49+0	8.54-2				9.84+2
59.4	11.877	32.950	25.02	0.00	0.478	1.19+0	2.96+0	6.31+0	8.42+0	3.52+0	2.53+0	9.51-1	4.59-2				6.47+2
64.4	11.625	32.947	25.07	0.00	0.444	6.62-1	1.82+0	4.17+0	5.77+0	2.31+0	1.62+0	5.64-1					4.24+2
69.4	11.344	32.964	25.13	0.00	0.444	3.75-1	1.19+0	2.90+0	4.12+0	1.58+0	1.07+0	3.41-1					2.91+2
74.4	11.186	33.841	25.22	0.00	0.431	2.26-1	8.04-1	2.09+0	3.85+0	1.11+0	7.32-1	2.19-1					2.07+2
79.3	18.957	32.973	25.21	0.00	0.422	1.35-1	5.61-1	1.54+0	2.30+0	7.97-1	5.86-1	1.29-1					1.51+2
84.4	18.747	33.823	25.28	0.00	0.410	8.45-2	4.81-1	1.17+0	1.78+0	5.74-1	3.48-1	8.13-2					1.13+2
89.3	18.618	33.822	25.31	0.00	0.405				2.95-1	9.14-1	1.41+0	4.28-1	2.43-1				8.42+1
94.2	18.299	32.996	25.34	0.00	0.397				2.30-1	7.29-1	1.14+0	3.84-1	1.65-1				6.68+1
99.3	18.147	32.985	25.36	0.00	0.396				1.73-1	5.98-1	9.28-1	2.38-1	1.08-1				5.23+1
104.2	18.039	32.936	25.34	0.00	0.394				1.31-1	4.77-1	7.63-1	1.69-1	8.09-2				4.18+1
109.2	9.926	32.942	25.36	0.00	0.391				9.82-2	3.91-1	6.38-1	1.25-1	5.48-2				3.35+1
114.2	18.103	32.780	25.20	0.00	0.388				7.58-2	3.22-1	5.21-1	9.65-2					2.65+1
119.1	9.935	33.852	25.45	0.00	0.387				5.97-2	2.58-1	4.32-1	7.86-2					2.14+1
124.2	9.668	33.264	25.66	0.00	0.386					2.12-1	3.54-1	4.68-2					1.68+1
129.0	9.785	33.364	25.73	0.00	0.387					1.69-1	2.88-1						1.19+1
134.0	9.823	33.504	25.82	0.00	0.388					1.34-1	2.31-1						9.50+0
139.0	9.942	33.619	25.89	0.00	0.389					9.35-2	1.83-1						7.22+0
143.9	9.782	33.646	25.93	0.00	0.389					7.94-2	1.42-1						5.78+0
148.9	9.417	33.692	26.03	0.00	0.388					6.47-2	1.18-1						4.55+0
154.0	9.368	33.696	26.04	0.00	0.389					4.72-2	8.49-2						3.44+0
158.9	9.243	33.886	26.15	0.00	0.387						6.21-2						1.71+0
163.9	8.974	33.853	26.23	0.00	0.384					3.83-2							1.05+0
168.9	8.818	33.875	26.27	0.00	0.384												
173.9	8.809	33.863	26.26	0.00	0.385												
178.9	8.769	33.882	26.28	0.00	0.385												
183.9	8.698	33.888	26.30	0.00	0.386												
188.9	8.593	33.989	26.33	0.00	0.386												

Cast Label : ODEX 3 STA 38 UP CAST 10-17-82 18

Lat. 34.2857N Long. 123.4038W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Fluor V.	Beam Atten	410 nm	441 nm	465 nm	488 nm	520 nm	540 nm	560 nm	589 nm	625 nm	671 nm	694 nm	$\Sigma$ IRR	-W/cm <sup>2</sup> -
-8.3	16.689	29.832	21.62	0.00	0.474	2.35+2	2.15+2	2.55+2	2.26+2	2.15+2	2.15+2	2.09+2	1.72+2	1.63+2	1.49+2	1.32+2	5.57+4	
4.8	16.699	32.963	24.02	0.00	0.464	1.74+2	1.69+2	2.08+2	1.98+2	1.62+2	1.57+2	1.41+2	8.45+1	3.37+1	1.55+1	8.39+0	3.38+4	
9.7	16.681	32.978	24.03	0.00	0.466	1.38+2	1.36+2	1.71+2	1.60+2	1.23+2	1.14+2	9.35+1	4.03+1	6.05+0	1.23+0	4.12-1	2.35+4	
14.8	16.678	32.973	24.04	0.00	0.467	9.98+1	1.10+2	1.41+2	1.32+2	9.22+1	8.26+1	6.17+1	2.00+1	1.19+0	1.42-1	5.35-2	1.78+4	
19.7	16.672	32.972	24.04	0.00	0.467	7.31+1	8.47+1	1.12+2	1.08+2	6.82+1	5.95+1	4.08+1	9.98+0	2.39-1	2.68-2		1.34+4	
24.7	16.652	32.969	24.04	0.00	0.468	5.40+1	6.59+1	8.95+1	8.76+1	4.99+1	4.19+1	2.64+1	4.70+0	4.88-2			1.01+4	
29.5	16.518	32.934	24.04	0.00	0.466	3.89+1	4.98+1	6.94+1	6.93+1	3.58+1	2.91+1	1.69+1	2.31+0				7.51+3	
34.7	13.460	32.954	24.72	0.00	0.510	2.57+1	3.52+1	5.14+1	5.28+1	2.52+1	2.80+1	1.03+1	1.14+0				5.37+3	
39.5	12.784	32.815	24.75	0.00	0.521	1.35+1	2.26+1	3.54+1	3.83+1	1.78+1	1.39+1	6.48+0	6.89-1				3.64+3	
44.6	12.697	32.864	24.88	0.00	0.509	7.00+0	1.37+1	2.32+1	2.66+1	1.21+1	8.62+0	3.94+0	3.09-1				2.35+3	
49.6	12.179	32.943	24.96	0.00	0.528	3.59+0	7.41+0	1.46+1	1.78+1	7.61+0	5.67+0	2.43+0	1.56-1				1.47+3	
54.6	11.864	32.957	25.03	0.00	0.474	1.94+0	4.42+0	8.93+0	1.19+1	5.10+0	3.79+0	1.52+0	7.77-2				9.36+2	
59.4	11.508	33.829	25.15	0.00	0.448	1.13+0	2.83+0	6.07+0	8.00+0	3.49+0	2.54+0	9.51-1	3.89-2				6.26+2	
64.4	11.310	32.946	25.12	0.00	0.442	6.49-1	1.82+0	4.15+0	5.70+0	2.34+0	1.66+0	5.59-1					4.22+2	
69.4	11.152	32.967	25.17	0.00	0.428	3.88-1	1.22+0	2.95+0	4.15+0	1.62+0	1.12+0	3.39-1					2.96+2	
74.4	11.056	32.993	25.21	0.00	0.420	2.47-1	8.37-1	2.16+0	3.11+0	1.14+0	7.56-1	1.97-1					2.13+2	
79.4	10.730	32.975	25.25	0.00	0.489	1.59-1	6.11-1	1.63+0	2.38+0	8.25-1	5.35-1	1.25-1					1.58+2	
84.3	10.604	33.816	25.38	0.00	0.407	1.89-1	4.54-1	1.26+0	1.87+0	5.93-1	3.78-1	6.69-2					1.28+2	
89.3	10.273	33.818	25.36	0.00	0.397				3.46-1	1.00+0	1.49+0	4.28-1	2.63-1				9.04+1	
94.3	10.134	32.936	25.32	0.00	0.395				2.71-1	8.05-1	1.21+0	3.28-1	1.98-1				7.17+1	
99.4	10.014	32.926	25.33	0.00	0.391				2.18-1	6.49-1	9.88-1	2.34-1	1.34-1				5.70+1	
104.3	9.923	32.924	25.35	0.00	0.389				1.69-1	5.38-1	8.14-1	1.75-1	9.79-2				4.62+1	
109.3	9.892	32.957	25.38	0.00	0.387				1.33-1	4.39-1	6.71-1	1.27-1	6.75-2				3.71+1	
114.3	9.922	33.894	25.48	0.00	0.387				1.04-1	3.65-1	5.52-1	9.10-2					2.90+1	
119.1	9.625	33.257	25.66	0.00	0.384				8.34-2	2.94-1	4.52-1	6.89-2					2.34+1	
124.1	9.711	33.359	25.72	0.00	0.385				6.06-2	2.35-1	3.65-1	4.74-2					1.85+1	
129.1	9.877	33.531	25.83	0.00	0.388					1.78-1	2.90-1						1.22+1	
134.0	9.912	33.648	25.91	0.00	0.389					1.44-1	2.27-1						9.63+0	
139.8	9.746	33.661	25.95	0.00	0.389					1.04-1	1.76-1						7.28+0	
143.9	9.396	33.686	26.03	0.00	0.388					8.12-2	1.35-1						5.63+0	
149.0	9.324	33.750	26.09	0.00	0.388					5.96-2	1.03-1						4.24+0	
154.0	9.152	33.781	26.14	0.00	0.387					4.71-2	7.63-2						3.20+0	
158.9	8.984	33.785	26.19	0.00	0.383						4.00-2						1.32+0	
163.9	8.808	33.830	26.24	0.00	0.384													
168.9	8.804	33.847	26.25	0.00	0.384													
173.8	8.779	33.862	26.27	0.00	0.385													
178.8	8.696	33.888	26.30	0.00	0.386													
183.8	8.642	33.894	26.31	0.00	0.386													
188.8	8.567	33.911	26.34	0.00	0.385													

Cast Label : ODEX 3 STA 37 DN CAST 10-18-82 19052

Lat. 34.2949N Long. 125.4090W

Z-ave M	Temp deg C	Sal. ppt	Dens. &-T	Fluor V.	Beam Atten	418 nM	441 nM	465 nM	488 nM	528 nM	548 nM	568 nM	589 nM	625 nM	671 nM	694 nM	$\Sigma$ IRR	-uW/cm <sup>2</sup> -
-0.3	16.936	15.425	18.57	0.00	0.338	5.34+1	4.89+1	5.75+1	5.88+1	4.74+1	4.69+1	4.53+1	3.57+1	3.49+1	3.18+1	2.65+1	1.22+4	
4.7	17.912	33.044	23.88	0.00	0.444	4.70+1	4.32+1	5.87+1	4.58+1	3.66+1	3.58+1	3.10+1	1.78+1	7.41+0	3.22+0	1.63+0	7.77+3	
9.7	17.912	33.054	23.81	0.00	0.444	3.98+1	3.78+1	4.48+1	3.98+1	2.90+1	2.67+1	2.16+1	9.18+0	1.43+0	3.22-1	1.08-1	5.99+3	
14.8	17.909	33.055	23.81	0.00	0.442	3.36+1	3.29+1	3.93+1	3.52+1	2.28+1	2.01+1	1.49+1	4.35+0	2.76-1	2.83-2		4.83+3	
19.7	17.910	33.061	23.81	0.00	0.445	2.79+1	2.84+1	3.43+1	3.89+1	1.88+1	1.53+1	1.00+1	2.29+0	5.71-2			3.97+3	
24.5	17.910	33.058	23.81	0.00	0.441	2.32+1	2.44+1	2.97+1	2.69+1	1.41+1	1.12+1	6.72+0	1.23+0				3.26+3	
29.7	17.911	33.057	23.81	0.00	0.442	1.77+1	2.05+1	2.53+1	2.38+1	1.09+1	8.04+0	4.57+0	6.69-1				2.64+3	
34.6	17.916	33.061	23.81	0.00	0.439	1.41+1	1.72+1	2.13+1	1.95+1	7.98+0	5.98+0	3.11+0	3.72-1				2.14+3	
39.6	17.922	33.071	23.82	0.00	0.442	1.10+1	1.41+1	1.77+1	1.63+1	5.89+0	4.21+0	2.02+0	1.94-1				1.72+3	
44.6	17.810	33.061	23.84	0.00	0.443	8.33+0	1.08+1	1.43+1	1.33+1	4.34+0	2.99+0	1.33+0	1.09-1				1.34+3	
49.5	17.351	33.169	24.03	0.00	0.453	6.22+0	8.21+0	1.15+1	1.84+1	3.24+0	2.16+0	8.89-1	6.40-2				1.03+3	
54.6	15.405	33.247	24.53	0.00	0.492	4.00+0	5.73+0	7.99+0	7.83+0	2.33+0	1.52+0	5.87-1	3.63-2				7.29+2	
59.5	14.674	32.986	24.49	0.00	0.501	2.25+0	3.64+0	5.50+0	5.69+0	1.64+0	1.84+0	3.77-1					4.93+2	
64.4	14.623	33.173	24.65	0.00	0.463	1.32+0	2.35+0	3.78+0	4.87+0	1.13+0	6.99-1	2.37-1					3.35+2	
69.6	14.144	33.111	24.70	0.00	0.474	7.63-1	1.50+0	2.57+0	2.89+0	7.75-1	4.64-1	1.47-1					2.26+2	
74.4	13.271	32.923	24.73	0.00	0.487	4.41-1	9.39-1	1.72+0	2.03+0	5.25-1	3.03-1	8.84-2					1.51+2	
79.3	12.834	32.972	24.86	0.00	0.468	2.35-1	5.90-1	1.16+0	1.43+0	3.63-1	2.10-1	5.80-2					1.81+2	
84.3	12.544	32.988	24.93	0.00	0.438	1.29-1	3.74-1	7.97-1	1.02+0	2.49-1	1.37-1						6.82+1	
89.3	12.423	32.978	24.94	0.00	0.427				2.47-1	5.62-1	7.40-1	1.77-1	8.29-2				4.66+1	
94.3	12.323	32.983	24.96	0.00	0.424				1.66-1	4.06-1	5.50-1	1.24-1	5.71-2				3.36+1	
99.3	12.089	33.003	25.02	0.00	0.415				1.12-1	2.96-1	4.16-1	8.79-2					2.38+1	
104.2	11.931	33.017	25.07	0.00	0.408				7.88-2	2.21-1	3.19-1	6.21-2					1.78+1	
109.2	11.697	32.995	25.09	0.00	0.404				6.84-2	1.77-1	2.48-1	4.34-2					1.38+1	
114.2	11.527	33.054	25.17	0.00	0.397					1.35-1	1.95-1						8.53+0	
119.1	11.318	33.057	25.21	0.00	0.398					1.89-1	1.56-1						6.85+0	
124.1	11.171	33.088	25.26	0.00	0.394					8.96-2	1.26-1						5.56+0	
128.9	10.861	33.146	25.36	0.00	0.390					7.18-2	1.03-1						4.51+0	
134.1	10.728	33.053	25.31	0.00	0.398					6.08-2	8.45-2						3.75+0	
139.8	10.529	33.096	25.38	0.00	0.389					4.51-2	6.87-2						2.95+0	
143.8	10.513	33.156	25.43	0.00	0.387						4.98-2						1.37+0	
149.0	10.167	33.229	25.54	0.00	0.386													
154.0	10.056	33.316	25.63	0.00	0.386													
158.9	9.948	33.360	25.68	0.00	0.386													
164.0	9.930	33.438	25.75	0.00	0.385													
168.9	9.789	33.484	25.81	0.00	0.385													
173.9	9.749	33.561	25.87	0.00	0.385													
178.8	9.559	33.638	25.96	0.00	0.382													
183.9	9.396	33.696	26.04	0.00	0.383													
188.7	9.294	33.734	26.08	0.00	0.385													

Cast Label : ODEX 3 STA 37 UP CAST 10-18-82 1933Z

Lat. 34.2938N Long. 125.4898W

Z-ave	Temp	Sal.	Dens.	Fluor	Beam	410 nM	441 nM	465 nM	488 nM	520 nM	548 nM	568 nM	589 nM	625 nM	671 nM	694 nM	$\Sigma$ IRR
M	deg C	ppt	&T	V.	Atten												
-0.3	17.770	29.848	20.77	0.00	0.381	4.58+1	4.84+1	4.72+1	4.15+1	3.86+1	3.81+1	3.67+1	2.85+1	2.79+1	2.53+1	2.84+1	9.91+3
4.7	17.887	33.053	23.81	0.00	0.439	3.89+1	3.53+1	4.14+1	3.66+1	2.97+1	2.85+1	2.52+1	1.43+1	5.75+0	2.55+0	1.28+0	6.32+3
9.7	17.887	33.050	23.81	0.00	0.439	3.26+1	3.07+1	3.63+1	3.23+1	2.35+1	2.17+1	1.75+1	7.28+0	1.12+0	2.49-1	8.52-2	4.86+3
14.8	17.887	33.052	23.81	0.00	0.439	2.75+1	2.67+1	3.19+1	2.85+1	1.86+1	1.65+1	1.19+1	3.59+0	2.23-1			3.92+3
19.8	17.888	33.052	23.81	0.00	0.439	2.30+1	2.31+1	2.79+1	2.51+1	1.47+1	1.23+1	8.84+0	1.98+0	3.55-2			3.23+3
24.6	17.889	33.052	23.81	0.00	0.436	1.78+1	1.99+1	2.43+1	2.28+1	1.16+1	8.91+0	5.48+0	9.98-1				2.64+3
29.6	17.891	33.048	23.81	0.00	0.437	1.46+1	1.69+1	2.09+1	1.90+1	8.72+0	6.73+0	3.83+0	5.72-1				2.18+3
34.8	17.792	33.017	23.81	0.00	0.447	1.15+1	1.41+1	1.76+1	1.62+1	6.49+0	4.85+0	2.51+0	2.91-1				1.76+3
39.6	17.705	33.038	23.84	0.00	0.437	8.88+0	1.12+1	1.45+1	1.34+1	4.92+0	3.56+0	1.71+0	1.64-1				1.48+3
44.7	16.418	33.526	24.52	0.00	0.452	6.74+0	8.57+0	1.19+1	1.08+1	3.70+0	2.59+0	1.14+0	8.85-2				1.89+3
49.6	15.044	33.126	24.52	0.00	0.493	4.46+0	6.16+0	8.58+0	8.25+0	2.73+0	1.86+0	7.54-1	4.48-2				7.93+2
54.7	14.618	32.978	24.49	0.00	0.497	2.68+0	4.03+0	5.99+0	6.13+0	1.95+0	1.31+0	4.92-1					5.49+2
59.5	14.586	33.126	24.64	0.00	0.456	1.56+0	2.66+0	4.21+0	4.48+0	1.36+0	8.87-1	3.07-1					3.80+2
64.4	13.582	33.241	24.92	0.00	0.474	9.68-1	1.78+0	2.95+0	3.24+0	9.48-1	6.12-1	1.92-1					2.64+2
69.4	12.943	32.958	24.83	0.00	0.471	5.46-1	1.14+0	2.82+0	2.32+0	6.58-1	4.16-1	1.15-1					1.79+2
74.4	12.619	32.982	24.91	0.00	0.452	3.89-1	7.38-1	1.39+0	1.66+0	4.59-1	2.88-1	6.66-2					1.23+2
79.3	12.434	32.950	24.92	0.00	0.430	1.72-1	4.84-1	9.72-1	1.19+0	3.14-1	1.98-1						8.38+1
84.5	12.361	32.983	24.96	0.00	0.418	1.03-1	3.25-1	6.96-1	8.79-1	2.14-1	1.33-1						5.93+1
89.3	12.187	32.974	24.98	0.00	0.417				2.36-1	5.17-1	6.68-1	1.54-1	9.74-2				4.28+1
94.3	11.965	33.025	25.07	0.00	0.404				1.66-1	3.86-1	5.04-1	1.07-1	6.49-2				3.16+1
99.4	11.691	33.015	25.11	0.00	0.397				1.24-1	2.98-1	3.92-1	7.26-2					2.31+1
104.2	11.547	33.005	25.13	0.00	0.397				9.18-2	2.29-1	3.09-1	4.70-2					1.76+1
109.2	11.348	33.027	25.18	0.00	0.392				7.29-2	1.86-1	2.48-1						1.32+1
114.1	11.195	33.027	25.21	0.00	0.389				6.07-2	1.53-1	2.08-1						1.08+1
119.0	11.870	33.039	25.24	0.00	0.389				5.09-2	1.23-1	1.62-1						8.74+0
124.3	10.813	33.013	25.26	0.00	0.386					9.94-2	1.30-1						5.91+0
129.0	10.650	33.062	25.33	0.00	0.385					8.56-2	1.05-1						4.89+0
134.2	10.535	33.106	25.39	0.00	0.383					7.33-2	8.48-2						4.86+0
138.9	10.556	33.143	25.41	0.00	0.382					5.75-2	6.58-2						3.14+0
143.9	10.170	33.215	25.53	0.00	0.382					3.66-2	4.36-2						2.86+0
149.1	10.058	33.322	25.64	0.00	0.382												
154.8	9.946	33.427	25.74	0.00	0.382												
158.8	9.952	33.355	25.68	0.00	0.382												

PREMATURE END OF DATA FILE

Cast Label : ODEX 3 STA 38 DN CAST 10-18-82 21252

Lat. 34.9990N Long. 125.4549W

Z-ave	Temp	Sal.	Dens.	Fluor	Beam	410 nM	441 nM	465 nM	488 nM	520 nM	548 nM	568 nM	589 nM	625 nM	671 nM	694 nM	$\Sigma$ IRR	$\Sigma$ IRR
M	deg C	ppt	&T	V.	Atten													-lw/cm2-
-8.3	16.886	29.398	21.24	0.00	0.256	6.31+1	5.69+1	6.67+1	5.88+1	5.47+1	5.41+1	5.21+1	4.89+1	3.99+1	3.62+1	2.99+1	1.41+4	
4.9	17.846	32.976	23.76	0.00	0.451	5.37+1	4.96+1	5.83+1	5.17+1	4.17+1	3.96+1	3.48+1	1.94+1	7.47+0	3.07+0	1.48+0	8.78+3	
9.8	17.852	32.995	23.78	0.00	0.448	4.51+1	4.29+1	5.10+1	4.54+1	3.29+1	3.03+1	2.45+1	1.03+1	1.68+0	3.61-1	1.18-1	6.88+3	
14.9	17.851	33.016	23.79	0.00	0.448	3.75+1	3.78+1	4.45+1	3.99+1	2.58+1	2.29+1	1.69+1	4.92+0	3.11-1	3.41-2		5.46+3	
19.7	17.851	33.024	23.80	0.00	0.447	3.12+1	3.20+1	3.88+1	3.58+1	2.04+1	1.74+1	1.15+1	2.61+0	6.45-2			4.49+3	
24.7	17.847	33.026	23.80	0.00	0.447	2.58+1	2.74+1	3.37+1	3.06+1	1.62+1	1.31+1	7.84+0	1.44+0				3.71+3	
29.7	17.845	33.026	23.80	0.00	0.448	2.11+1	2.33+1	2.89+1	2.66+1	1.26+1	9.46+0	5.28+0	7.57-1				3.05+3	
34.7	17.838	33.025	23.80	0.00	0.458	1.59+1	1.96+1	2.47+1	2.29+1	9.58+0	7.02+0	3.66+0	4.28-1				2.48+3	
39.7	17.865	33.085	23.84	0.00	0.447	1.27+1	1.63+1	2.08+1	1.95+1	7.24+0	5.23+0	2.53+0	2.42-1				2.03+3	
44.6	17.914	33.092	23.83	0.00	0.443	1.80+1	1.35+1	1.75+1	1.65+1	5.56+0	3.87+0	1.73+0	1.43-1				1.66+3	
49.6	17.978	33.132	23.85	0.00	0.437	7.68+0	1.04+1	1.42+1	1.36+1	4.11+0	2.75+0	1.13+0	7.88-2				1.30+3	
54.5	16.667	33.316	24.38	0.00	0.481	5.63+0	7.85+0	1.14+1	1.07+1	3.18+0	2.08+0	7.68-1	4.89-2				1.01+3	
59.4	15.369	33.118	24.44	0.00	0.494	3.51+0	5.45+0	7.98+0	8.11+0	2.38+0	1.45+0	5.21-1					7.16+2	
64.4	14.747	32.946	24.45	0.00	0.492	2.87+0	3.56+0	5.59+0	5.95+0	1.60+0	1.01+0	3.33-1					4.95+2	
69.5	14.040	33.089	24.64	0.00	0.486	1.22+0	2.31+0	3.86+0	4.29+0	1.12+0	6.79-1	2.18-1					3.39+2	
74.4	13.918	32.973	24.64	0.00	0.483	7.01-1	1.46+0	2.61+0	3.05+0	7.70-1	4.35-1	1.31-1					2.28+2	
79.3	13.182	32.929	24.76	0.00	0.488	3.85-1	9.06-1	1.76+0	2.14+0	5.33-1	3.06-1	8.07-2					1.53+2	
84.3	13.814	32.961	24.81	0.00	0.461	2.82-1	5.62-1	1.18+0	1.50+0	3.73-1	2.04-1						1.01+2	
89.3	12.566	32.961	24.90	0.00	0.442	1.12-1	3.60-1	8.16-1	1.08+0	2.57-1	1.36-1						6.98+1	
94.2	12.331	32.913	24.91	0.00	0.425				2.42-1	5.88-1	7.88-1	1.78-1	9.44-2				4.85+1	
99.4	12.105	33.081	25.82	0.00	0.417				1.64-1	4.27-1	5.91-1	1.22-1	6.37-2				3.52+1	
104.2	11.913	32.939	25.01	0.00	0.412				1.14-1	3.19-1	4.58-1	8.03-2					2.51+1	
109.2	11.742	32.937	25.04	0.00	0.408				7.62-2	2.32-1	3.47-1	6.09-2					1.87+1	
114.2	11.562	32.956	25.09	0.00	0.400				5.98-2	1.98-1	2.71-1	4.70-2					1.48+1	
119.1	11.759	33.084	25.15	0.00	0.396					1.51-1	2.14-1						9.42+0	
124.2	12.154	33.215	25.18	0.00	0.389					1.17-1	1.78-1						7.43+0	
128.9	12.147	33.303	25.25	0.00	0.383					9.20-2	1.36-1						5.89+0	
134.1	12.067	33.338	25.29	0.00	0.383					7.46-2	1.08-1						4.73+0	
139.0	11.890	33.357	25.34	0.00	0.382					6.08-2	8.61-2						3.79+0	
144.0	11.588	33.413	25.44	0.00	0.382					4.46-2	6.30-2						2.78+0	
149.0	11.213	33.350	25.46	0.00	0.382					4.10-2							1.13+0	
154.0	11.198	33.447	25.53	0.00	0.380													
159.0	10.785	33.431	25.60	0.00	0.381													
163.9	10.625	33.498	25.67	0.00	0.380													
168.9	10.457	33.471	25.68	0.00	0.379													
173.8	9.878	33.544	25.84	0.00	0.383													
178.8	9.783	33.682	25.91	0.00	0.382													
183.9	9.615	33.577	25.91	0.00	0.382													
188.8	9.486	33.686	26.01	0.00	0.385													

Cast Label : ODEX 3 STA 38 UP CAST 10-18-82 2149Z

Lat. 34.999N Long. 125.454W

Z-ave	Temp	Sal.	Dens.	Fluor	Beam	418 nM	441 nM	465 nM	488 nM	520 nM	540 nM	560 nM	589 nM	625 nM	671 nM	694 nM	$\Sigma$ IRR
-0.3	17.411	38.971	22.33	0.00	0.300	7.34+1	6.49+1	7.59+1	6.68+1	6.20+1	6.13+1	5.91+1	4.61+1	4.51+1	4.88+1	3.34+1	1.68+4
4.7	17.858	33.829	23.88	0.00	0.443	6.14+1	5.62+1	6.61+1	5.86+1	4.88+1	4.59+1	4.80+1	2.38+1	1.83+1	4.72+0	2.44+0	1.82+4
9.7	17.852	33.830	23.88	0.00	0.443	5.11+1	4.85+1	5.77+1	5.14+1	3.75+1	3.45+1	2.79+1	1.19+1	1.89+0	4.48-1	1.49-1	7.72+3
14.7	17.853	33.829	23.88	0.00	0.443	4.26+1	4.18+1	5.03+1	4.50+1	2.96+1	2.62+1	1.95+1	6.10+0	4.07-1	4.76-2		6.22+3
19.7	17.853	33.826	23.88	0.00	0.443	3.53+1	3.59+1	4.37+1	3.94+1	2.32+1	1.98+1	1.36+1	3.08+0	7.68-2			5.88+3
24.7	17.850	33.826	23.88	0.00	0.443	2.89+1	3.87+1	3.78+1	3.43+1	1.81+1	1.49+1	8.74+0	1.68+0				4.16+3
29.6	17.842	33.827	23.88	0.00	0.443	2.38+1	2.61+1	3.25+1	2.97+1	1.42+1	1.09+1	6.01+0	8.74-1				3.43+3
34.7	17.837	33.819	23.88	0.00	0.454	1.81+1	2.20+1	2.77+1	2.56+1	1.12+1	7.94+0	4.15+0	4.96-1				2.81+3
39.7	17.975	33.899	23.83	0.00	0.437	1.45+1	1.85+1	2.35+1	2.19+1	8.33+0	6.08+0	2.98+0	2.88-1				2.38+3
44.6	17.992	33.857	23.79	0.00	0.433	1.15+1	1.53+1	1.98+1	1.85+1	6.28+0	4.39+0	1.96+0	1.61-1				1.88+3
49.6	17.845	33.819	23.88	0.00	0.432	8.91+0	1.24+1	1.62+1	1.54+1	4.68+0	3.15+0	1.29+0	8.96-2				1.58+3
54.7	15.748	33.122	24.36	0.00	0.484	6.42+0	8.84+0	1.27+1	1.23+1	3.44+0	2.24+0	8.47-1	4.99-2				1.13+3
59.4	14.922	33.827	24.47	0.00	0.492	4.14+0	6.27+0	9.02+0	9.34+0	2.56+0	1.63+0	5.82-1	3.49-2				8.28+2
64.4	14.478	33.848	24.58	0.00	0.489	2.55+0	4.28+0	6.57+0	6.88+0	1.87+0	1.17+0	3.79-1					5.82+2
69.3	13.991	32.945	24.68	0.00	0.480	1.48+0	2.76+0	4.52+0	4.95+0	1.29+0	8.03-1	2.38-1					3.97+2
74.5	13.467	32.994	24.75	0.00	0.481	8.53-1	1.76+0	3.08+0	3.52+0	8.94-1	5.44-1	1.45-1					2.68+2
79.3	13.856	32.924	24.78	0.00	0.469	4.88-1	1.10+0	2.87+0	2.47+0	6.16-1	3.74-1	8.42-2					1.88+2
84.4	12.737	32.948	24.86	0.00	0.452	2.58-1	6.83-1	1.39+0	1.73+0	4.20-1	2.54-1						1.19+2
89.4	12.427	32.896	24.88	0.00	0.432	1.44-1	4.43-1	9.56-1	1.23+0	2.90-1	1.77-1						8.17+1
94.3	12.133	32.936	24.96	0.00	0.417	8.69-2	2.96-1	6.83-1	8.93-1	1.98-1	1.18-1						5.76+1
99.3	12.029	32.981	25.02	0.00	0.414		2.05-1	4.99-1	6.62-1	1.32-1	8.09-2						4.86+1
104.3	11.813	32.956	25.04	0.00	0.409		1.42-1	3.71-1	4.98-1	9.21-2	6.43-2						3.80+1
109.2	11.578	32.994	25.11	0.00	0.404		1.06-1	2.74-1	3.79-1	6.40-2							2.14+1
114.2	11.446	32.959	25.11	0.00	0.397		8.22-2	2.17-1	2.92-1	4.38-2							1.65+1
119.0	12.141	33.151	25.13	0.00	0.388		6.12-2	1.66-1	2.28-1								1.18+1
124.2	12.155	33.301	25.24	0.00	0.382		4.83-2	1.34-1	1.88-1								9.43+0
129.0	12.831	33.322	25.28	0.00	0.382			1.12-1	1.42-1								6.55+0
134.1	11.925	33.347	25.32	0.00	0.382			8.63-2	1.12-1								5.10+0
139.0	11.489	33.558	25.57	0.00	0.381			6.76-2	8.72-2								3.99+0
143.9	11.221	33.363	25.46	0.00	0.380			5.51-2	6.52-2								3.89+0
149.1	11.194	33.430	25.52	0.00	0.378			3.59-2	4.17-2								1.99+0
154.0	10.875	33.614	25.72	0.00	0.378												
159.0	10.584	33.521	25.70	0.00	0.378												
164.0	10.439	33.443	25.66	0.00	0.378												
168.8	9.944	33.499	25.79	0.00	0.382												
173.8	9.726	33.567	25.88	0.00	0.381												
178.9	9.592	33.611	25.94	0.00	0.382												

PREMATURE END OF DATA FILE

Cast Label : ODEX 3 STA 44 UP CAST 18-19-82 2118Z

Lat. 34.2958N Long. 128.0990W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Fluor V.	Beam Aften	410 nM	441 nM	465 nM	488 nM	520 nM	540 nM	568 nM	589 nM	625 nM	671 nM	694 nM	$\Sigma$ IRR -W/cm <sup>2</sup> :
-8.4	18.888	22.941	15.88	0.00	0.544	9.54+1	8.20+1	9.35+1	8.10+1	7.36+1	7.20+1	6.84+1	5.30+1	5.06+1	4.49+1	3.71+1	1.90+4
4.3	18.875	33.158	23.65	0.00	0.413	8.27+1	7.23+1	8.27+1	7.17+1	5.72+1	5.40+1	4.71+1	2.70+1	1.89+1	4.92+0	2.48+0	1.24+4
9.2	18.835	33.159	23.66	0.00	0.414	7.18+1	6.37+1	7.32+1	6.36+1	4.51+1	4.08+1	3.24+1	1.36+1	2.05+0	4.55-1	1.59-1	9.65+3
14.3	18.819	33.158	23.66	0.00	0.415	6.17+1	5.61+1	6.48+1	5.64+1	3.62+1	3.17+1	2.35+1	7.61+8	5.35-1	6.65-2	2.60-2	8.80+3
19.2	18.794	33.163	23.67	0.00	0.416	5.38+1	4.96+1	5.77+1	5.07+1	2.89+1	2.43+1	1.64+1	3.68+0	9.55-2		6.70+3	
24.1	18.797	33.166	23.67	0.00	0.417	4.67+1	4.47+1	5.25+1	4.63+1	2.37+1	1.93+1	1.16+1	2.05+0			5.81+3	
29.2	18.805	33.171	23.68	0.00	0.417	4.14+1	4.06+1	4.82+1	4.27+1	1.95+1	1.53+1	8.04+0	1.13+0			5.11+3	
34.1	18.808	33.178	23.68	0.00	0.416	3.65+1	3.65+1	4.38+1	3.91+1	1.65+1	1.22+1	6.11+0	7.09-1			4.52+3	
39.1	18.807	33.178	23.68	0.00	0.417	3.12+1	3.20+1	3.88+1	3.50+1	1.33+1	9.09+0	4.30+0	4.08-1			3.89+3	
44.8	18.806	33.174	23.68	0.00	0.415	2.63+1	2.76+1	3.37+1	3.05+1	1.84+1	6.86+0	2.98+0	2.34-1			3.28+3	
49.1	18.804	33.168	23.67	0.00	0.416	2.18+1	2.34+1	2.87+1	2.61+1	7.74+0	5.10+0	2.05+0	1.33-1			2.73+3	
54.8	18.798	33.136	23.65	0.00	0.415	1.69+1	1.97+1	2.45+1	2.23+1	5.86+0	3.72+0	1.37+0	7.00-2			2.26+3	
59.8	18.267	33.452	24.02	0.00	0.429	1.36+1	1.64+1	2.06+1	1.98+1	4.61+0	2.82+0	9.82-1	4.51-2			1.87+3	
63.9	15.587	33.052	24.34	0.00	0.439	9.73+0	1.27+1	1.65+1	1.57+1	3.48+0	2.07+0	6.54+1				1.47+3	
68.9	14.814	32.964	24.45	0.00	0.433	6.29+0	8.51+0	1.26+1	1.24+1	2.62+0	1.53+0	4.48-1				1.08+3	
73.9	14.192	33.051	24.64	0.00	0.432	4.03+0	5.99+0	8.92+0	9.41+0	1.92+0	1.09+0	3.81-1				7.75+2	
78.8	13.845	32.950	24.64	0.00	0.423	2.53+0	4.17+0	6.65+0	7.85+0	1.41+0	7.78-1	1.96-1				5.61+2	
83.7	13.365	32.924	24.72	0.00	0.425	1.49+0	2.77+0	4.75+0	5.29+0	1.02+0	5.61-1	1.25-1				3.97+2	
88.8	12.675	33.025	24.93	0.00	0.424	8.61-1	1.84+0	3.48+0	3.96+0	7.49-1	4.83-1	7.25-2				2.82+2	
93.9	12.114	32.965	24.99	0.00	0.408	4.97-1	1.22+0	2.44+0	2.96+0	5.39-1	2.78-1					1.99+2	
98.9	11.617	33.026	25.13	0.00	0.397	2.88-1	8.23-1	1.78+0	2.22+0	3.83-1	1.98-1					1.44+2	
103.7	11.378	33.117	25.25	0.00	0.397	1.69-1	5.64-1	1.31+0	1.69+0	2.72-1	1.46-1					1.05+2	
108.7	10.919	33.243	25.42	0.00	0.392	1.01-1	4.82-1	9.83-1	1.30+0	2.03-1	1.03-1					7.89+1	
113.7	10.643	33.326	25.54	0.00	0.388		2.85-1	7.47-1	1.01+0	1.46-1	8.24-2					5.87+1	
118.6	10.449	33.371	25.61	0.00	0.385		2.03-1	5.69-1	7.90-1	1.04-1	5.31-2					4.44+1	
123.7	10.185	33.446	25.71	0.00	0.383		1.45-1	4.35-1	6.19-1	7.23-2						3.31+1	
128.6	9.820	33.531	25.84	0.00	0.382		1.08-1	3.41-1	4.89-1	4.79-2						2.57+1	
133.6	9.552	33.601	25.94	0.00	0.381		7.68-2	2.58-1	3.88-1							1.88+1	
138.5	9.375	33.636	25.99	0.00	0.382		5.52-2	2.81-1	3.07-1							1.47+1	
143.5	9.188	33.681	26.06	0.00	0.382			1.57-1	2.48-1							1.03+1	
148.4	8.982	33.728	26.13	0.00	0.382				1.13-1	1.85-1						7.73+0	
153.5	8.946	33.746	26.15	0.00	0.382					8.55-2	1.39-1					5.84+0	
158.5	8.843	33.796	26.20	0.00	0.382					5.84-2	1.05-1					4.25+0	
163.4	8.757	33.826	26.24	0.00	0.382					4.85-2	7.84-2					3.30+0	
168.3	8.681	33.860	26.28	0.00	0.382						5.12-2					1.41+0	
173.4	8.618	33.876	26.30	0.00	0.382						3.12-2					8.58-1	
178.3	8.569	33.886	26.32	0.00	0.382												
183.2	8.509	33.905	26.34	0.00	0.382												
188.4	8.435	33.918	26.36	0.00	0.382												

Cast Label : ODEX 3 STA 46 UP CAST 10-28-82 1911Z

Lat. 34.3303N Long. 138.4653W

Z-ave	Temp	Sal.	Dens.	Fluor	Beam	Atten	410 nM	441 nM	465 nM	488 nM	520 nM	540 nM	560 nM	589 nM	625 nM	671 nM	694 nM	$\Sigma$ IRR	-W/cm2-
M	deg C	ppt	&T	V.															
-0.3	19.172	27.376	19.16	0.00	0.499	6.49+1	5.75+1	6.72+1	5.91+1	5.49+1	5.42+1	5.23+1	4.05+1	4.00+1	3.63+1	2.93+1	1.41+4		
4.8	19.220	33.631	23.92	0.00	0.409	5.91+1	5.23+1	6.02+1	5.25+1	4.22+1	4.00+1	3.51+1	1.98+1	7.95+0	3.41+0	1.68+0	9.07+3		
9.7	19.223	33.631	23.92	0.00	0.409	5.25+1	4.68+1	5.37+1	4.68+1	3.33+1	3.04+1	2.45+1	1.03+1	1.64+0	3.80-1	1.32-1	7.14+3		
14.9	19.222	33.629	23.92	0.00	0.410	4.64+1	4.18+1	4.80+1	4.17+1	2.62+1	2.30+1	1.69+1	4.92+0	3.10-1	3.06-2		5.87+3		
19.7	19.222	33.632	23.92	0.00	0.409	4.11+1	3.74+1	4.28+1	3.71+1	2.10+1	1.77+1	1.16+1	2.68+0	6.46-2			4.96+3		
24.6	19.222	33.626	23.92	0.00	0.410	3.62+1	3.33+1	3.81+1	3.30+1	1.66+1	1.32+1	7.79+0	1.42+0				4.21+3		
29.7	19.220	33.628	23.91	0.00	0.411	3.17+1	2.96+1	3.37+1	2.92+1	1.32+1	9.82+0	5.41+0	7.83-1				3.68+3		
34.7	19.214	33.621	23.92	0.00	0.410	2.76+1	2.61+1	2.98+1	2.57+1	1.01+1	7.24+0	3.72+0	4.37-1				3.86+3		
39.6	19.179	33.561	23.88	0.00	0.413	2.38+1	2.27+1	2.60+1	2.25+1	7.68+0	5.41+0	2.56+0	2.46-1				2.68+3		
44.7	17.613	33.883	24.51	0.00	0.429	1.88+1	1.95+1	2.24+1	1.94+1	5.93+0	4.00+0	1.74+0	1.41-1				2.17+3		
49.6	16.619	33.625	24.55	0.00	0.419	1.50+1	1.62+1	1.89+1	1.65+1	4.64+0	3.04+0	1.22+0	8.60-2				1.79+3		
54.6	16.400	33.671	24.64	0.00	0.421	1.15+1	1.32+1	1.57+1	1.38+1	3.53+0	2.23+0	8.35-1	5.22-2				1.45+3		
59.4	16.156	33.688	24.70	0.00	0.421	8.87+0	1.02+1	1.31+1	1.14+1	2.71+0	1.65+0	5.67-1	2.99-2				1.16+3		
64.5	15.785	33.655	24.76	0.00	0.422	6.52+0	7.89+0	1.08+1	9.27+0	2.02+0	1.19+0	3.78-1					8.94+2		
69.6	15.343	33.590	24.81	0.00	0.420	4.93+0	6.35+0	8.18+0	7.51+0	1.56+0	8.88-1	2.61-1					7.15+2		
74.5	15.076	33.588	24.87	0.00	0.419	3.58+0	4.98+0	6.51+0	6.88+0	1.18+0	6.41-1	1.71-1					5.58+2		
79.3	14.620	33.723	25.07	0.00	0.417	2.59+0	3.76+0	5.17+0	4.90+0	8.85-1	4.69-1	1.14-1					4.35+2		
84.3	14.428	33.588	25.01	0.00	0.414	1.82+0	2.82+0	4.05+0	3.94+0	6.69-1	3.41-1	7.20-2					3.35+2		
89.3	14.278	33.604	25.05	0.00	0.408	1.27+0	2.12+0	3.17+0	3.14+0	5.08-1	2.45-1	4.82-2					2.58+2		
94.4	14.123	33.615	25.09	0.00	0.403	8.87-1	1.58+0	2.46+0	2.58+0	3.73-1	1.79-1						1.97+2		
99.3	14.234	33.607	25.06	0.00	0.399	6.21-1	1.20+0	1.92+0	1.99+0	2.82-1	1.29-1						1.52+2		
104.3	14.226	33.693	25.13	0.00	0.397	4.43-1	9.01-1	1.50+0	1.58+0	2.08-1	9.65-2						1.18+2		
109.3	14.007	33.673	25.16	0.00	0.396	3.14-1	6.90-1	1.19+0	1.26+0	1.61-1	6.76-2						9.28+1		
114.2	13.708	33.644	25.28	0.00	0.398	2.25-1	5.36-1	9.47-1	1.02+0	1.28-1	5.58-2						7.26+1		
119.1	13.518	33.619	25.22	0.00	0.388	1.57-1	4.17-1	7.64-1	8.24-1	8.62-2							5.67+1		
124.3	13.382	33.602	25.24	0.00	0.387	1.14-1	3.33-1	6.21-1	6.73-1	6.97-2							4.58+1		
129.1	13.253	33.587	25.25	0.00	0.384	8.32-2	2.62-1	5.07-1	5.52-1	4.37-2							3.67+1		
134.0	13.132	33.587	25.27	0.00	0.383		2.09-1	4.13-1	4.54-1								2.79+1		
139.0	12.981	33.564	25.29	0.00	0.382		1.71-1	3.46-1	3.74-1								2.31+1		
143.8	13.123	33.644	25.32	0.00	0.382		1.37-1	2.85-1	3.88-1								1.89+1		
149.0	13.002	33.658	25.36	0.00	0.388		1.10-1	2.33-1	2.53-1								1.54+1		
153.9	12.956	33.728	25.42	0.00	0.381		9.35-2	2.02-1	2.06-1								1.38+1		
158.9	12.465	33.823	25.59	0.00	0.378		7.78-2	1.68-1	1.69-1								1.07+1		
163.9	11.919	33.720	25.61	0.00	0.378		6.14-2	1.41-1	1.39-1								8.82+0		
168.9	11.723	33.637	25.59	0.00	0.378		4.84-2	1.19-1	1.14-1								7.24+0		
173.8	11.255	33.684	25.71	0.00	0.378			9.45-2	9.32-2								4.78+0		
178.9	10.953	33.695	25.77	0.00	0.377			8.37-2	7.67-2								4.08+0		
183.9	10.659	33.656	25.79	0.00	0.376			6.86-2	6.38-2								3.37+0		
188.8	10.462	33.704	25.86	0.00	0.375			5.65-2	4.68-2								2.62+0		

Cast Label : ODEX 3 STA 47 DN CAST 10-22-82 20552

Lat. 34.1231N Long. 134.2236W

Z-ave M	Temp deg C	Sal. ppt	Dens. &-T	Fluor V.	Beam Atten	410 nM	441 nM	465 nM	488 nM	520 nM	548 nM	568 nM	589 nM	625 nM	671 nM	694 nM	Irradiance uW/cm <sup>2</sup> /nM	-uW/cm <sup>2</sup> -	$\Sigma$ IRR
-8.4	20.787	26.248	17.98	0.00	1.155	2.04+2	1.92+2	2.29+2	2.05+2	1.93+2	1.92+2	1.87+2	1.51+2	1.43+2	1.38+2	1.14+2	4.95+4		
4.3	19.424	33.741	23.95	0.00	0.484	1.95+2	1.88+2	2.09+2	1.85+2	1.48+2	1.42+2	1.26+2	7.46+1	3.08+1	1.46+1	7.84+0	3.28+4		
9.2	19.392	33.685	23.92	0.00	0.415	1.72+2	1.61+2	1.88+2	1.67+2	1.19+2	1.09+2	8.86+1	3.74+1	6.28+0	1.36+0	4.58-1	2.58+4		
14.2	19.371	33.678	23.92	0.00	0.419	1.49+2	1.45+2	1.70+2	1.58+2	9.57+1	8.40+1	6.18+1	1.94+1	1.21+0	1.55-1	4.88-2	2.88+4		
19.3	19.361	33.676	23.92	0.00	0.414	1.32+2	1.31+2	1.53+2	1.35+2	7.68+1	6.58+1	4.42+1	1.08+1	3.16-1	4.87-2	1.77+4			
24.2	19.357	33.675	23.92	0.00	0.414	1.14+2	1.16+2	1.36+2	1.28+2	6.89+1	4.95+1	3.87+1	5.57+0	9.18-2	2.36-2	1.49+4			
29.2	19.355	33.682	23.93	0.00	0.415	1.01+2	1.03+2	1.20+2	1.06+2	4.78+1	3.66+1	2.89+1	2.82+0	4.72-2		1.27+4			
34.2	19.333	33.681	23.93	0.00	0.415	8.62+1	8.97+1	1.05+2	9.17+1	3.67+1	2.75+1	1.45+1	1.58+0	3.13-2		1.07+4			
39.1	18.558	33.673	24.12	0.00	0.422	7.28+1	7.63+1	8.93+1	7.84+1	2.78+1	2.08+1	9.82+0	8.34-1			8.84+3			
44.8	16.701	33.703	24.59	0.00	0.429	5.51+1	6.16+1	7.39+1	6.58+1	2.18+1	1.52+1	6.34+0	5.04-1			7.13+3			
49.1	16.092	33.670	24.71	0.00	0.426	4.11+1	4.85+1	5.97+1	5.42+1	1.65+1	1.08+1	4.27+0	2.93-1			5.63+3			
54.1	15.516	33.674	24.84	0.00	0.427	3.01+1	3.75+1	4.77+1	4.40+1	1.24+1	7.45+0	2.88+0	1.72-1			4.37+3			
58.9	14.831	33.545	24.89	0.00	0.421	2.16+1	2.87+1	3.77+1	3.55+1	8.89+0	5.25+0	1.83+0	1.01-1			3.37+3			
63.9	14.720	33.595	24.95	0.00	0.415	1.43+1	2.19+1	2.98+1	2.86+1	6.45+0	3.78+0	1.24+0	6.18-2			2.59+3			
68.9	14.874	33.697	25.00	0.00	0.413	1.01+1	1.66+1	2.35+1	2.38+1	4.74+0	2.67+0	8.25-1	4.83-2			2.00+3			
74.0	14.679	33.698	25.04	0.00	0.411	7.18+0	1.27+1	1.85+1	1.85+1	3.52+0	1.90+0	5.58-1			1.55+3				
78.9	14.827	33.766	25.06	0.00	0.411	5.00+0	8.99+0	1.45+1	1.47+1	2.68+0	1.35+0	3.68-1			1.17+3				
83.8	14.653	33.800	25.12	0.00	0.412	3.52+0	6.69+0	1.11+1	1.16+1	1.93+0	9.61-1	2.47-1			8.95+2				
88.8	14.484	33.758	25.13	0.00	0.488	2.46+0	4.97+0	8.15+0	9.05+0	1.43+0	6.87-1	1.71-1			6.78+2				
93.8	14.115	33.756	25.20	0.00	0.399	1.79+0	3.87+0	6.54+0	7.88+0	1.18+0	5.03-1	1.20-1			5.24+2				
98.8	13.852	33.688	25.21	0.00	0.397	1.28+0	2.94+0	5.12+0	5.68+0	8.25-1	3.62-1	8.61-2			4.86+2				
103.7	13.495	33.597	25.21	0.00	0.397	8.90-1	2.24+0	4.04+0	4.49+0	6.19-1	2.58-1	5.69-2			3.17+2				
108.8	13.276	33.541	25.21	0.00	0.395	6.22-1	1.73+0	3.23+0	3.63+0	4.67-1	1.78-1				2.49+2				
113.7	13.053	33.587	25.29	0.00	0.393	4.46-1	1.35+0	2.59+0	2.95+0	3.56-1	1.28-1				1.98+2				
118.6	12.771	33.464	25.25	0.00	0.392	3.00-1	1.05+0	2.09+0	2.41+0	2.71-1	9.15-2				1.58+2				
123.6	12.557	33.427	25.26	0.00	0.390	2.22-1	8.26-1	1.71+0	1.98+0	2.08-1	6.63-2				1.27+2				
128.5	12.478	33.397	25.26	0.00	0.388	1.46-1	6.45-1	1.39+0	1.64+0	1.64-1					1.02+2				
133.5	12.469	33.424	25.28	0.00	0.387	1.05-1	5.20-1	1.15+0	1.36+0	1.25-1					8.36+1				
138.5	12.366	33.415	25.29	0.00	0.386	8.75-2	4.16-1	9.50-1	1.14+0	1.02-1					6.92+1				
143.5	12.369	33.541	25.39	0.00	0.384				3.29-1	7.83-1	9.58-1	8.18-2			5.59+1				
148.5	12.278	33.559	25.42	0.00	0.384				2.62-1	6.46-1	8.03-1	6.50-2			4.62+1				
153.6	12.058	33.598	25.49	0.00	0.383				2.14-1	5.38-1	6.74-1	4.66-2			3.83+1				
158.4	11.618	33.601	25.58	0.00	0.382				1.71-1	4.48-1	5.68-1	4.56-2			3.28+1				
163.5	11.288	33.565	25.62	0.00	0.382				1.40-1	3.79-1	4.81-1				2.68+1				
168.3	10.997	33.613	25.78	0.00	0.381				1.08-1	3.03-1	4.07-1				2.13+1				
173.4	10.716	33.604	25.74	0.00	0.380				8.68-2	2.51-1	3.45-1				1.78+1				
178.2	10.552	33.685	25.83	0.00	0.380				6.84-2	2.12-1	2.93-1				1.49+1				
183.3	10.394	33.658	25.84	0.00	0.379				5.73-2	1.74-1	2.49-1				1.25+1				
188.4	10.193	33.686	25.90	0.00	0.379				4.93-2	1.53-1	2.15-1				1.09+1				

Cast Label : ODEX 3 STA 47 UP CAST 10-22-82 2129Z

Lat. 34.1231N Long. 134.2236W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Fluor V.	Beam Atten	410 nm	441 nm	465 nm	488 nm	520 nm	540 nm	560 nm	589 nm	625 nm	671 nm	694 nm	$\Sigma$ IRR	-W/cm2-
0.0	19.478	33.685	23.90	0.00	0.413	1.93+2	1.74+2	2.05+2	1.83+2	1.67+2	1.66+2	1.61+2	1.28+2	1.16+2	1.02+2	8.80+1	4.27+4	
4.8	19.467	33.685	23.90	0.00	0.406	1.76+2	1.60+2	1.86+2	1.64+2	1.33+2	1.26+2	1.11+2	6.63+1	2.65+1	1.24+1	6.58+0	2.85+4	
9.8	19.414	33.685	23.91	0.00	0.408	1.54+2	1.44+2	1.67+2	1.47+2	1.04+2	9.43+1	7.52+1	3.12+1	4.43+0	9.24-1	3.08-1	2.28+4	
14.8	19.374	33.691	23.93	0.00	0.409	1.42+2	1.32+2	1.51+2	1.32+2	8.14+1	7.89+1	5.16+1	1.62+1	9.93-1	1.23-1	5.12-2	1.84+4	
19.7	19.369	33.687	23.93	0.00	0.415	1.16+2	1.16+2	1.36+2	1.19+2	6.90+1	5.79+1	3.92+1	9.73+0	2.56-1	2.90-2	2.52-2	1.57+4	
24.7	19.364	33.674	23.92	0.00	0.411	1.08+2	1.06+2	1.23+2	1.08+2	5.44+1	4.42+1	2.76+1	5.03+0	7.34-2		1.36+4		
29.7	19.349	33.678	23.92	0.00	0.410	9.46+1	9.56+1	1.12+2	9.76+1	4.38+1	3.39+1	1.93+1	2.67+0				1.18+4	
34.6	19.169	33.748	24.02	0.00	0.412	8.39+1	8.58+1	9.96+1	8.66+1	3.38+1	2.58+1	1.27+1	1.38+0				1.81+4	
39.7	16.779	33.786	24.64	0.00	0.428	6.88+1	7.20+1	8.49+1	7.46+1	2.65+1	1.89+1	8.45+0	7.82-1				8.38+3	
44.6	16.122	33.758	24.77	0.00	0.423	5.14+1	5.73+1	6.94+1	6.21+1	2.05+1	1.43+1	5.90+0	4.69-1				6.69+3	
49.6	15.475	33.734	24.89	0.00	0.423	3.81+1	4.47+1	5.56+1	5.06+1	1.53+1	9.84+0	3.81+0	2.63-1				5.21+3	
54.6	14.854	33.918	25.17	0.00	0.428	2.78+1	3.46+1	4.43+1	4.08+1	1.15+1	6.89+0	2.52+0	1.55-1				4.05+3	
59.6	14.774	33.592	24.94	0.00	0.412	1.81+1	2.59+1	3.47+1	3.29+1	8.32+0	4.90+0	1.66+0	8.99-2				3.07+3	
64.5	14.837	33.634	24.96	0.00	0.411	1.27+1	1.99+1	2.74+1	2.65+1	5.95+0	3.51+0	1.10+0	5.00-2				2.37+3	
69.5	14.952	33.734	25.01	0.00	0.408	9.18+0	1.52+1	2.17+1	2.13+1	4.42+0	2.52+0	7.42-1	3.50-2				1.84+3	
74.4	14.782	33.812	25.11	0.00	0.406	6.33+0	1.10+1	1.69+1	1.70+1	3.24+0	1.78+0	4.86-1					1.48+3	
79.3	14.593	33.805	25.14	0.00	0.406	4.41+0	7.98+0	1.30+1	1.33+1	2.39+0	1.28+0	3.28-1					1.85+3	
84.4	14.181	33.861	25.27	0.00	0.397	3.11+0	5.94+0	9.58+0	1.04+1	1.80+0	9.37-1	2.23-1					7.94+2	
89.3	13.886	33.748	25.25	0.00	0.397	2.28+0	4.64+0	7.66+0	8.11+0	1.35+0	6.95-1	1.42-1					6.19+2	
94.4	13.569	33.595	25.19	0.00	0.393	1.57+0	3.46+0	5.95+0	6.42+0	1.00+0	4.95-1	9.17-2					4.74+2	
99.2	13.342	33.618	25.26	0.00	0.391	1.12+0	2.67+0	4.73+0	5.14+0	7.53-1	3.53-1	5.69-2					3.71+2	
104.3	13.219	33.544	25.22	0.00	0.388	7.92-1	2.05+0	3.76+0	4.15+0	5.68-1	2.68-1						2.91+2	
109.3	12.834	33.635	25.37	0.00	0.387	5.64-1	1.59+0	3.02+0	3.36+0	4.28-1	1.95-1						2.31+2	
114.2	12.678	33.514	25.31	0.00	0.385	4.04-1	1.25+0	2.44+0	2.73+0	3.15-1	1.57-1						1.84+2	
119.0	12.526	33.422	25.27	0.00	0.384	2.95-1	9.80-1	1.97+0	2.23+0	2.43-1	1.85-1						1.48+2	
124.2	12.445	33.411	25.27	0.00	0.383	2.10-1	7.69-1	1.61+0	1.84+0	1.86-1	8.10-2						1.19+2	
129.0	12.361	33.438	25.31	0.00	0.382	1.49-1	6.13-1	1.32+0	1.52+0	1.39-1	6.64-2						9.70+1	
134.1	12.467	33.413	25.27	0.00	0.381	1.09-1	4.84-1	1.08+0	1.24+0	1.04-1	6.73-2						7.85+1	
139.0	12.430	33.537	25.37	0.00	0.380	8.20-2	3.79-1	8.74-1	1.02+0	7.82-2							6.22+1	
143.9	12.279	33.553	25.42	0.00	0.379			3.86-1	7.19-1	8.45-1	5.92-2						5.01+1	
149.1	11.967	33.672	25.57	0.00	0.377			2.59-1	6.31-1	7.31-1	4.46-2						4.32+1	
154.0	11.538	33.681	25.65	0.00	0.378			2.05-1	5.25-1	6.30-1							3.53+1	
158.9	11.395	33.591	25.61	0.00	0.375			1.65-1	4.28-1	5.14-1							2.87+1	

PREMATURE END OF DATA FILE

Cast Label : ODEX 3 STA 51 UP CAST 10-26-82 0844Z

Lat. 34.8128N Long. 141.0898W

Z-ave	Temp	Sal.	Dens.	Fluor	Beam	410 nM	441 nM	465 nM	488 nM	528 nM	548 nM	568 nM	589 nM	625 nM	671 nM	694 nM	$\Sigma$ IRR	-UW/cm <sup>2</sup> -
M	deg C	ppt	&-T	V.	Atten													-UW/cm <sup>2</sup> -
-0.4	19.858	19.638	13.12	0.00	2.938	4.21+1	4.16+1	5.19+1	4.75+1	4.64+1	4.62+1	4.48+1	3.64+1	3.54+1	3.36+1	2.87+1	1.17+4	
4.3	19.892	34.328	24.27	0.00	0.415	4.69+1	4.24+1	4.98+1	4.29+1	3.42+1	3.22+1	2.79+1	1.61+1	6.36+0	2.81+0	1.44+0	7.34+3	
9.2	19.891	34.319	24.27	0.00	0.415	4.34+1	3.93+1	4.48+1	3.86+1	2.64+1	2.35+1	1.82+1	7.15+0	8.72-1	1.76-1	5.98-2	5.75+3	
14.3	19.892	34.328	24.27	0.00	0.415	4.02+1	3.63+1	4.07+1	3.47+1	2.08+1	1.77+1	1.24+1	3.41+0	1.85-1			4.85+3	
19.3	19.893	34.318	24.27	0.00	0.414	3.59+1	3.27+1	3.66+1	3.18+1	1.62+1	1.28+1	7.76+0	1.62+0				4.89+3	
24.1	19.888	34.321	24.28	0.00	0.416	3.17+1	2.92+1	3.25+1	2.74+1	1.29+1	9.40+0	5.43+0	9.85-1				3.58+3	
29.2	19.876	34.319	24.28	0.00	0.417	2.70+1	2.54+1	2.83+1	2.40+1	9.69+0	6.84+0	3.57+0	4.56-1				2.93+3	
34.3	19.867	34.318	24.28	0.00	0.417	2.32+1	2.21+1	2.45+1	2.07+1	7.87+0	4.93+0	2.35+0	2.40-1				2.46+3	
39.1	19.888	34.316	24.27	0.00	0.416	1.86+1	1.91+1	2.11+1	1.77+1	5.33+0	3.54+0	1.54+0	1.25-1				2.05+3	
44.1	19.891	34.326	24.28	0.00	0.415	1.59+1	1.65+1	1.82+1	1.51+1	4.05+0	2.58+0	1.84+0	7.27-2				1.73+3	
49.1	19.899	34.329	24.28	0.00	0.415	1.31+1	1.41+1	1.54+1	1.28+1	3.01+0	1.82+0	6.63-1	3.62-2				1.44+3	
54.8	19.896	34.314	24.27	0.00	0.414	1.13+1	1.23+1	1.34+1	1.08+1	2.39+0	1.48+0	4.81-1					1.23+3	
59.8	19.693	34.423	24.40	0.00	0.415	9.47+0	9.84+0	1.12+1	8.96+0	1.79+0	1.01+0	3.86-1					1.80+3	
64.8	17.863	34.738	25.38	0.00	0.426	7.70+0	8.17+0	8.99+0	7.37+0	1.36+0	7.41-1	2.11-1					8.13+2	
68.9	16.141	33.959	24.92	0.00	0.425	5.72+0	6.40+0	7.22+0	6.02+0	1.03+0	5.41-1	1.38-1					6.41+2	
73.9	15.314	33.974	25.12	0.00	0.423	4.16+0	4.97+0	5.76+0	4.88+0	7.77-1	3.96-1	8.56-2					5.81+2	
78.8	14.919	33.848	25.10	0.00	0.420	2.96+0	3.79+0	4.55+0	3.92+0	5.78-1	2.98-1	5.16-2					3.87+2	
83.9	14.933	33.952	25.18	0.00	0.417	2.08+0	2.86+0	3.57+0	3.14+0	4.38-1	2.03-1						2.96+2	
88.8	14.556	33.948	25.26	0.00	0.416	1.42+0	2.12+0	2.77+0	2.49+0	3.08-1	1.59-1						2.25+2	
93.8	14.484	33.856	25.22	0.00	0.412	9.74-1	1.55+0	2.12+0	1.96+0	2.32-1	1.07-1						1.78+2	
98.8	14.208	33.974	25.36	0.00	0.411	6.68-1	1.12+0	1.60+0	1.53+0	1.75-1	7.65-2						1.27+2	
103.8	14.122	33.942	25.35	0.00	0.408	4.68-1	8.15-1	1.22+0	1.18+0	1.38-1	6.26-2						9.54+1	
108.8	14.145	33.969	25.36	0.00	0.399	3.07-1	5.93-1	9.22-1	9.16-1	9.13-2							7.83+1	
113.8	13.979	33.968	25.39	0.00	0.397	2.13-1	4.38-1	7.05-1	7.14-1	6.43-2							5.32+1	
118.6	13.797	34.083	25.46	0.00	0.393	1.50-1	3.31-1	5.55-1	5.63-1	4.89-2							4.10+1	
123.6	13.864	33.974	25.59	0.00	0.388	1.05-1	2.54-1	4.38-1	4.48-1								3.12+1	
128.6	12.816	33.785	25.49	0.00	0.385		1.89-1	3.44-1	3.68-1								2.32+1	
133.6	12.635	33.856	25.58	0.00	0.383		1.44-1	2.73-1	2.89-1								1.83+1	
138.4	12.361	33.795	25.59	0.00	0.382		1.11-1	2.19-1	2.31-1								1.46+1	
143.5	12.092	33.891	25.71	0.00	0.382		8.31-2	1.78-1	1.84-1								1.15+1	
148.5	11.677	33.814	25.73	0.00	0.381		6.39-2	1.48-1	1.47-1								9.26+0	
153.6	11.362	33.799	25.78	0.00	0.379		5.09-2	1.13-1	1.17-1								7.28+0	
158.5	11.248	33.815	25.81	0.00	0.378			9.62-2	9.20-2								4.79+0	
163.4	10.965	33.878	25.91	0.00	0.377			7.55-2	7.53-2								3.84+0	
168.4	10.736	33.865	25.94	0.00	0.375				6.21-2	6.32-2							3.20+0	

PREMATURE END OF DATA FILE

Cast Label : ODEX 3 STA 58 DN CAST 10-27-82 2143Z

Lat. 33.5810N Long. 142.8630W

Z-ave M	Temp deg C	Sal. ppt	Dens. &-T	Fluor V.	Beam Atten	410 nm	441 nm	465 nm	488 nm	520 nm	540 nm	560 nm	589 nm	625 nm	671 nm	694 nm	$\Sigma$ IRR
-8.3	20.907	23.494	15.78	0.00	0.246	2.10+2	1.95+2	2.32+2	2.07+2	1.96+2	1.95+2	1.98+2	1.53+2	1.47+2	1.33+2	1.15+2	5.03+4
4.7	20.829	34.702	24.53	0.00	0.419	1.88+2	1.76+2	2.07+2	1.84+2	1.51+2	1.45+2	1.29+2	7.45+1	2.86+1	1.28+1	6.58+0	3.18+4
9.7	20.822	34.673	24.51	0.00	0.415	1.70+2	1.60+2	1.87+2	1.65+2	1.16+2	1.06+2	8.45+1	3.45+1	4.82+0	9.93-1	3.24-1	2.46+4
14.9	20.827	34.671	24.51	0.00	0.414	1.48+2	1.41+2	1.66+2	1.47+2	9.13+1	8.08+1	5.82+1	1.74+1	9.58-1	1.14-1	4.48-2	2.81+4
19.7	20.820	34.666	24.51	0.00	0.415	1.32+2	1.27+2	1.48+2	1.29+2	7.08+1	5.92+1	3.95+1	9.28+0	2.43-1	3.08-2	1.69+4	
24.7	20.814	34.665	24.51	0.00	0.415	1.09+2	1.09+2	1.28+2	1.12+2	5.54+1	4.46+1	2.73+1	4.65+0	6.68-2		1.39+4	
29.7	20.811	34.671	24.51	0.00	0.415	9.62+1	9.61+1	1.11+2	9.78+1	4.18+1	3.22+1	1.80+1	2.34+0	2.78-2		1.17+4	
34.6	20.807	34.671	24.51	0.00	0.415	8.12+1	8.28+1	9.62+1	8.37+1	3.23+1	2.39+1	1.20+1	1.28+0			9.75+3	
39.6	20.807	34.673	24.51	0.00	0.415	6.88+1	7.13+1	8.28+1	7.21+1	2.49+1	1.78+1	7.89+0	7.23-1			8.17+3	
44.6	19.991	34.678	24.52	0.00	0.415	5.87+1	6.16+1	7.14+1	6.20+1	1.93+1	1.29+1	5.31+0	4.22-1			6.89+3	
49.6	20.800	35.219	24.93	0.00	0.415	4.98+1	5.29+1	6.12+1	5.30+1	1.47+1	8.96+0	3.49+0	2.45-1			5.77+3	
54.5	17.588	34.518	25.00	0.00	0.432	3.99+1	4.37+1	5.13+1	4.47+1	1.13+1	6.68+0	2.39+0	1.54-1			4.75+3	
59.4	15.538	33.844	24.97	0.00	0.426	3.01+1	3.49+1	4.19+1	3.70+1	8.36+0	4.83+0	1.64+0	1.01-1			3.79+3	
64.4	15.143	33.822	25.04	0.00	0.423	2.18+1	2.70+1	3.35+1	3.01+1	6.87+0	3.44+0	1.89+0	6.46-2			2.95+3	
69.4	14.928	33.810	25.07	0.00	0.420	1.46+1	2.08+1	2.66+1	2.43+1	4.49+0	2.46+0	7.26-1	4.48-2			2.27+3	
74.3	14.862	33.827	25.10	0.00	0.420	1.01+1	1.57+1	2.89+1	1.95+1	3.32+0	1.75+0	4.88-1	3.16-2			1.75+3	
79.4	14.864	33.842	25.11	0.00	0.418	6.98+0	1.18+1	1.63+1	1.55+1	2.45+0	1.24+0	3.17-1				1.34+3	
84.4	15.821	33.960	25.17	0.00	0.417	4.75+0	8.18+0	1.25+1	1.22+1	1.76+0	8.48-1	2.13-1				9.93+2	
89.3	14.891	33.967	25.20	0.00	0.413	3.33+0	6.01+0	9.10+0	9.44+0	1.31+0	6.13-1	1.41-1				7.40+2	
94.3	14.775	33.952	25.22	0.00	0.413	2.35+0	4.55+0	7.16+0	7.32+0	9.98-1	4.46-1	9.29-2				5.68+2	
99.2	14.682	34.005	25.28	0.00	0.409	1.64+0	3.36+0	5.49+0	5.73+0	7.44-1	3.29-1	6.31-2				4.32+2	
104.2	14.768	34.040	25.29	0.00	0.399	1.17+0	2.55+0	4.30+0	4.54+0	5.59-1	2.35-1					3.33+2	
109.2	14.959	34.130	25.31	0.00	0.397	8.38-1	1.96+0	3.41+0	3.64+0	4.21-1	1.73-1					2.61+2	
114.2	14.821	34.133	25.35	0.00	0.396	6.89-1	1.52+0	2.74+0	2.95+0	3.17-1	1.20-1					2.08+2	
119.1	14.935	34.192	25.37	0.00	0.392	4.43-1	1.20+0	2.22+0	2.42+0	2.39-1	8.69-2					1.66+2	
124.2	14.766	34.178	25.39	0.00	0.388	3.25-1	9.55-1	1.83+0	2.01+0	1.84-1	6.75-2					1.36+2	
129.0	14.428	34.153	25.45	0.00	0.385	2.48-1	7.76-1	1.53+0	1.69+0	1.45-1	5.52-2					1.12+2	
134.1	13.863	34.036	25.47	0.00	0.383	1.84-1	6.36-1	1.29+0	1.42+0	1.12-1						9.27+1	
138.9	13.597	34.045	25.53	0.00	0.383	1.39-1	5.12-1	1.08+0	1.20+0	8.65-2						7.69+1	
143.9	13.264	33.978	25.54	0.00	0.384	1.02-1	4.14-1	9.01-1	1.01+0	6.51-2						6.35+1	
149.1	13.275	34.004	25.57	0.00	0.383			3.28-1	7.38-1	8.36-1	4.39-2					5.85+1	
154.8	13.044	34.058	25.66	0.00	0.382			2.62-1	6.85-1	6.92-1						4.85+1	
159.8	12.487	34.031	25.75	0.00	0.382			2.07-1	4.98-1	5.72-1						3.31+1	
163.9	12.894	34.081	25.86	0.00	0.382			1.63-1	4.06-1	4.73-1						2.70+1	
168.9	11.714	33.958	25.84	0.00	0.382			1.34-1	3.37-1	3.92-1						2.24+1	
173.8	11.455	33.955	25.88	0.00	0.382			1.07-1	2.88-1	3.28-1						1.87+1	
178.8	11.270	33.940	25.90	0.00	0.381			8.37-2	2.38-1	2.78-1						1.55+1	
183.9	11.868	33.991	25.98	0.00	0.380			6.83-2	2.04-1	2.37-1						1.32+1	
188.8	10.928	33.984	26.00	0.00	0.378			6.22-2	1.82-1	2.08-1						1.17+1	

Cast Label : ODEX 3 STA 63 DN CAST 10-28-82 2213Z

Lat. 33.4470N Long. 141.1760W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Fluor V.	Beam Atten	410 nM	441 nM	465 nM	488 nM	520 nM	540 nM	560 nM	589 nM	625 nM	671 nM	694 nM	$\Sigma$ IRR -W/cm <sup>2</sup> :
-8.4	28.117	23.485	15.97	0.00	0.496	9.40+1	8.50+1	9.88+1	8.73+1	8.11+1	8.06+1	7.75+1	6.07+1	5.89+1	5.29+1	4.36+1	2.09+4
4.3	19.816	34.168	24.18	0.00	0.415	8.62+1	7.77+1	8.98+1	7.78+1	6.20+1	5.91+1	5.21+1	2.97+1	1.19+1	5.31+0	2.59+0	1.34+4
9.3	19.775	34.172	24.19	0.00	0.417	7.65+1	7.00+1	7.99+1	6.96+1	4.91+1	4.48+1	3.60+1	1.52+1	2.39+0	5.50-1	1.87-1	1.06+4
14.2	19.724	34.173	24.21	0.00	0.418	6.81+1	6.30+1	7.18+1	6.22+1	3.91+1	3.41+1	2.53+1	8.11+0	5.41-1	7.05-2		8.79+3
19.3	19.715	34.178	24.21	0.00	0.425	6.01+1	5.64+1	6.41+1	5.54+1	3.08+1	2.58+1	1.75+1	3.98+0	1.23-1			7.39+3
24.2	19.710	34.174	24.21	0.00	0.418	5.25+1	5.01+1	5.68+1	4.89+1	2.41+1	1.94+1	1.17+1	2.09+0	3.35-2			6.24+3
29.2	19.707	34.172	24.21	0.00	0.418	4.57+1	4.42+1	5.00+1	4.29+1	1.88+1	1.46+1	7.72+0	1.10+0				5.28+3
34.2	19.705	34.179	24.22	0.00	0.419	3.95+1	3.87+1	4.38+1	3.75+1	1.48+1	1.06+1	5.30+0	6.21-1				4.49+3
39.1	19.703	34.175	24.21	0.00	0.419	3.40+1	3.38+1	3.82+1	3.26+1	1.15+1	7.68+0	3.58+0	3.46-1				3.80+3
44.1	19.699	34.165	24.21	0.00	0.421	2.89+1	2.92+1	3.38+1	2.81+1	8.75+0	5.61+0	2.45+0	2.05-1				3.21+3
49.0	18.023	34.827	25.14	0.00	0.432	2.40+1	2.46+1	2.88+1	2.39+1	6.53+0	4.28+0	1.72+0	1.25-1				2.67+3
54.0	16.349	34.863	24.95	0.00	0.432	1.68+1	1.97+1	2.30+1	2.08+1	4.91+0	3.82+0	1.14+0	7.45-2				2.11+3
58.8	15.934	33.982	24.98	0.00	0.430	1.21+1	1.55+1	1.86+1	1.65+1	3.67+0	2.18+0	7.62-1	4.65-2				1.66+3
64.0	15.317	33.795	24.98	0.00	0.426	8.60+0	1.20+1	1.49+1	1.34+1	2.76+0	1.59+0	5.31-1	3.09-2				1.38+3
68.9	15.003	33.986	25.13	0.00	0.425	6.22+0	8.87+0	1.22+1	1.07+1	2.10+0	1.15+0	3.60-1					1.01+3
73.9	14.736	33.892	25.18	0.00	0.424	4.39+0	6.79+0	9.15+0	8.53+0	1.58+0	8.43-1	2.49-1					7.69+2
78.9	14.686	33.987	25.28	0.00	0.425	2.98+0	5.84+0	7.10+0	6.77+0	1.17+0	5.99-1	1.68-1					5.84+2
83.8	14.662	33.972	25.25	0.00	0.423	2.86+0	3.77+0	5.53+0	5.39+0	8.77-1	4.24-1	1.15-1					4.48+2
88.9	14.435	33.966	25.30	0.00	0.420	1.40+0	2.77+0	4.26+0	4.28+0	6.49-1	3.09-1	8.07-2					3.41+2
93.8	14.344	33.945	25.38	0.00	0.421	9.30-1	2.02+0	3.25+0	3.37+0	4.94-1	2.16-1	5.38-2					2.57+2
98.8	14.136	33.942	25.34	0.00	0.422	6.30-1	1.47+0	2.48+0	2.63+0	3.68-1	1.51-1						1.93+2
103.8	13.925	33.901	25.36	0.00	0.416	4.14-1	1.06+0	1.87+0	2.05+0	2.76-1	1.08-1						1.45+2
108.7	13.882	33.923	25.38	0.00	0.412	2.84-1	7.77-1	1.44+0	1.60+0	2.87-1	7.48-2						1.11+2
113.7	13.796	33.941	25.41	0.00	0.405	1.94-1	5.81-1	1.11+0	1.27+0	1.63-1	5.48-2						8.53+1
118.6	13.529	33.918	25.45	0.00	0.397	1.25-1	4.36-1	8.61-1	1.01+0	1.19-1	5.49-2						6.61+1
123.6	13.006	33.884	25.53	0.00	0.396			3.31-1	6.93-1	8.15-1	8.45-2						5.00+1
128.5	12.614	33.783	25.53	0.00	0.393			2.56-1	5.63-1	6.67-1	6.48-2						4.03+1
133.5	12.368	33.745	25.55	0.00	0.391			2.01-1	4.59-1	5.50-1	4.49-2						3.26+1
138.4	12.175	33.827	25.45	0.00	0.390			1.60-1	3.73-1	4.57-1							2.57+1
143.5	12.002	33.792	25.65	0.00	0.388			1.29-1	3.86-1	3.79-1							2.12+1
148.5	11.774	33.815	25.71	0.00	0.387			9.89-2	2.53-1	3.15-1							1.73+1
153.6	11.588	33.855	25.78	0.00	0.385			7.87-2	2.08-1	2.62-1							1.43+1
158.5	11.387	33.849	25.81	0.00	0.385			6.26-2	1.76-1	2.19-1							1.19+1
163.4	11.184	33.852	25.85	0.00	0.385			5.38-2	1.55-1	1.85-1							1.02+1
168.4	11.010	33.878	25.90	0.00	0.383				1.33-1	1.59-1							7.48+0
173.3	10.863	33.928	25.97	0.00	0.381				1.18-1	1.38-1							6.36+0
178.4	10.806	33.932	25.98	0.00	0.382				9.09-2	1.20-1							5.43+0
183.2	10.698	33.961	26.02	0.00	0.381				8.72-2	1.03-1							4.88+0
188.4	10.622	33.967	26.04	0.00	0.380				6.59-2	8.53-2							3.89+0

Cast Label : ODEX 3 STA 66 DN CAST 10-29-82 20552

Lat. 33.3343N Long. 141.3892W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Fluor V.	Beam Atten	Irradiance $\mu\text{W}/\text{cm}^2/\text{nM}$										$\Sigma \text{IRR}$	
						418 nM	441 nM	465 nM	488 nM	520 nM	548 nM	568 nM	589 nM	625 nM	671 nM	694 nM	
-8.3	19.207	23.750	16.48	0.00	27.631	9.46+1	8.57+1	1.01+2	8.93+1	8.34+1	8.27+1	7.99+1	6.25+1	6.08+1	5.48+1	4.54+1	2.14+4
4.8	19.782	34.336	24.32	0.00	0.418	8.87+1	7.96+1	9.18+1	8.84+1	6.41+1	6.12+1	5.37+1	2.99+1	1.17+1	5.84+0	2.41+0	1.38+4
9.7	19.782	34.341	24.32	0.00	0.417	7.98+1	7.25+1	8.33+1	7.26+1	5.16+1	4.74+1	3.82+1	1.68+1	2.60+0	6.05-1	2.05-1	1.11+4
14.8	19.783	34.344	24.32	0.00	0.422	7.11+1	6.56+1	7.52+1	6.54+1	4.11+1	3.62+1	2.66+1	8.33+0	5.30-1	6.65-2		9.21+3
19.7	19.784	34.343	24.32	0.00	0.441	6.29+1	5.87+1	6.74+1	5.84+1	3.28+1	2.79+1	1.89+1	4.36+0	1.37-1			7.80+3
24.6	19.781	34.339	24.32	0.00	0.416	5.49+1	5.28+1	5.96+1	5.16+1	2.57+1	2.19+1	1.31+1	2.26+0				6.58+3
29.6	19.785	34.349	24.32	0.00	0.416	4.73+1	4.54+1	5.21+1	4.50+1	2.01+1	1.57+1	8.43+0	1.22+0				5.53+3
34.7	19.787	34.342	24.32	0.00	0.415	4.83+1	3.93+1	4.51+1	3.89+1	1.54+1	1.10+1	5.51+0	6.29-1				4.61+3
39.7	19.782	34.341	24.32	0.00	0.415	3.43+1	3.38+1	3.88+1	3.34+1	1.21+1	8.10+0	3.87+0	3.89-1				3.88+3
44.6	19.776	34.336	24.32	0.00	0.415	2.98+1	2.89+1	3.33+1	2.86+1	9.01+0	5.92+0	2.60+0	2.26-1				3.24+3
49.6	19.751	34.327	24.32	0.00	0.413	2.43+1	2.46+1	2.82+1	2.44+1	6.64+0	4.28+0	1.73+0	1.29-1				2.69+3
54.6	19.801	34.429	24.59	0.00	0.423	1.86+1	2.05+1	2.37+1	2.05+1	5.10+0	3.17+0	1.21+0	8.58-2				2.28+3
59.5	16.691	34.865	24.87	0.00	0.426	1.40+1	1.62+1	1.92+1	1.68+1	3.75+0	2.24+0	7.85-1	5.28-2				1.74+3
64.4	15.774	33.992	25.03	0.00	0.425	9.91+0	1.24+1	1.50+1	1.34+1	2.76+0	1.59+0	5.25-1	2.98-2				1.33+3
69.4	15.258	33.923	25.09	0.00	0.423	7.00+0	8.97+0	1.20+1	1.04+1	2.05+0	1.13+0	3.55-1					1.01+3
74.6	15.845	33.934	25.14	0.00	0.421	4.76+0	6.63+0	8.70+0	8.01+0	1.47+0	7.75-1	2.26-1					7.40+2
79.3	14.982	33.968	25.20	0.00	0.419	3.24+0	4.84+0	6.59+0	6.16+0	1.86+0	5.31-1	1.50-1					5.49+2
84.3	14.477	33.879	25.22	0.00	0.423	2.16+0	3.50+0	4.97+0	4.76+0	7.49-1	3.53-1	9.55-2					4.06+2
89.3	14.400	33.933	25.28	0.00	0.421	1.44+0	2.53+0	3.76+0	3.69+0	5.47-1	2.41-1	5.62-2					3.02+2
94.3	14.238	33.933	25.32	0.00	0.423	9.61-1	1.84+0	2.86+0	2.88+0	3.98-1	1.69-1						2.26+2
99.4	14.086	33.931	25.35	0.00	0.426	6.42-1	1.33+0	2.18+0	2.27+0	2.96-1	1.19-1						1.70+2
104.2	13.948	33.914	25.36	0.00	0.426	4.54-1	9.83-1	1.68+0	1.80+0	2.28-1	8.93-2						1.31+2
109.3	13.885	33.930	25.39	0.00	0.413	3.15-1	7.37-1	1.32+0	1.44+0	1.81-1	6.68-2						1.02+2
114.3	13.818	33.948	25.41	0.00	0.418	2.18-1	5.57-1	1.04+0	1.16+0	1.31-1							7.85+1
119.8	13.783	33.943	25.43	0.00	0.405	1.49-1	4.24-1	8.34-1	9.35-1	9.87-2							6.18+1
124.2	13.484	33.915	25.47	0.00	0.397	1.84-1	3.22-1	6.61-1	7.55-1	7.47-2							4.87+1
129.8	13.166	33.894	25.51	0.00	0.396			2.44-1	5.28-1	6.11-1	5.19-2						3.73+1
134.1	12.935	33.846	25.51	0.00	0.395			1.92-1	4.32-1	4.95-1	4.21-2						3.01+1
139.8	12.548	33.883	25.54	0.00	0.391			1.46-1	3.46-1	4.02-1							2.32+1
143.9	12.441	33.824	25.59	0.00	0.389			1.17-1	2.94-1	3.28-1							1.92+1
149.1	12.187	33.849	25.66	0.00	0.389			9.21-2	2.34-1	2.71-1							1.55+1
154.8	11.941	33.836	25.70	0.00	0.388			6.94-2	1.89-1	2.24-1							1.25+1
158.9	11.443	33.836	25.79	0.00	0.385			5.96-2	1.61-1	1.85-1							1.05+1
163.9	11.198	33.822	25.83	0.00	0.384			4.65-2	1.33-1	1.52-1							8.59+0
168.9	11.042	33.851	25.88	0.00	0.382				1.10-1	1.24-1							5.99+0
173.8	10.966	33.879	25.91	0.00	0.382				9.69-2	1.01-1							5.86+0
178.9	10.740	33.892	25.96	0.00	0.381				7.85-2	8.43-2							4.16+0
183.8	10.682	33.896	25.98	0.00	0.381				6.37-2	7.17-2							3.47+0
188.8	10.571	33.930	26.02	0.00	0.379				5.39-2	5.57-2							2.80+0

Cast Label : ODEX 3 STA 66 UP CAST 10-29-82 21192

Lat. 33.3343N Long. 141.3892W

Z-ave	Temp	Sal.	Dens.	Fluor	Beam	410 nM	441 nM	465 nM	488 nM	520 nM	540 nM	560 nM	589 nM	625 nM	671 nM	694 nM	$\Sigma$ IRR	$\text{uW/cm}^2$
M	deg C	ppt	&T	V.	Atten													-
-0.2	19.730	33.163	23.43	0.00	1.815	6.56+1	5.73+1	6.67+1	5.83+1	5.38+1	5.29+1	5.08+1	3.88+1	3.79+1	3.38+1	2.69+1	1.38+4	
4.8	19.778	34.345	24.32	0.00	0.413	5.96+1	5.24+1	6.03+1	5.25+1	4.18+1	3.96+1	3.47+1	1.92+1	7.76+0	3.31+0	1.61+0	9.03+3	
9.7	19.781	34.345	24.32	0.00	0.413	5.34+1	4.76+1	5.46+1	4.72+1	3.35+1	3.04+1	2.45+1	1.81+1	1.58+0	3.62-1	1.24-1	7.20+3	
14.9	19.788	34.344	24.32	0.00	0.412	4.76+1	4.38+1	4.93+1	4.26+1	2.64+1	2.38+1	1.67+1	4.78+0	2.74-1	2.79-2		5.97+3	
19.7	19.779	34.344	24.32	0.00	0.412	4.25+1	3.88+1	4.45+1	3.84+1	2.13+1	1.78+1	1.17+1	2.62+0	6.68-2			5.12+3	
24.7	19.782	34.345	24.32	0.00	0.412	3.78+1	3.51+1	4.02+1	3.47+1	1.72+1	1.39+1	8.00+0	1.41+0				4.42+3	
29.6	19.788	34.346	24.32	0.00	0.411	3.37+1	3.16+1	3.62+1	3.11+1	1.41+1	1.06+1	5.84+0	8.54-1				3.85+3	
34.5	19.781	34.344	24.32	0.00	0.412	2.97+1	2.82+1	3.23+1	2.78+1	1.14+1	7.95+0	4.14+0	5.84-1				3.33+3	
39.5	19.775	34.342	24.32	0.00	0.410	2.60+1	2.51+1	2.86+1	2.46+1	8.66+0	6.02+0	2.88+0	2.88-1				2.87+3	
44.6	19.738	34.329	24.32	0.00	0.408	2.26+1	2.28+1	2.52+1	2.16+1	6.62+0	4.46+0	1.95+0	1.63-1				2.46+3	
49.6	19.637	34.375	24.38	0.00	0.408	1.88+1	1.91+1	2.19+1	1.88+1	5.16+0	3.36+0	1.35+0	9.93-2				2.07+3	
54.5	18.523	34.334	24.64	0.00	0.418	1.48+1	1.61+1	1.86+1	1.61+1	3.96+0	2.47+0	9.19-1	5.84-2				1.73+3	
59.5	16.639	34.076	24.89	0.00	0.422	1.14+1	1.30+1	1.53+1	1.34+1	3.02+0	1.81+0	6.27-1	3.69-2				1.39+3	
64.4	15.481	34.811	25.11	0.00	0.421	8.59+0	9.98+0	1.28+1	1.09+1	2.35+0	1.36+0	4.29-1					1.11+3	
69.4	15.123	33.937	25.13	0.00	0.417	6.86+0	7.61+0	9.63+0	8.73+0	1.76+0	1.00+0	2.94-1					8.42+2	
74.4	14.984	33.923	25.16	0.00	0.416	4.24+0	5.79+0	7.68+0	6.98+0	1.31+0	7.16-1	1.96-1					6.48+2	
79.3	14.613	33.917	25.22	0.00	0.417	2.96+0	4.35+0	5.94+0	5.58+0	9.75-1	5.24-1	1.31-1					4.98+2	
84.3	14.563	33.958	25.26	0.00	0.413	2.03+0	3.24+0	4.62+0	4.44+0	7.21-1	3.67-1	7.86-2					3.88+2	
89.3	14.342	33.937	25.30	0.00	0.417	1.38+0	2.39+0	3.56+0	3.51+0	5.33-1	2.69-1	5.06-2					2.88+2	
94.3	14.157	33.921	25.32	0.00	0.420	9.25-1	1.73+0	2.71+0	2.74+0	3.89-1	1.92-1						2.15+2	
99.4	13.844	33.933	25.40	0.00	0.421	6.15-1	1.24+0	2.03+0	2.12+0	2.82-1	1.41-1						1.68+2	
104.3	13.901	33.898	25.35	0.00	0.408	4.15-1	8.95-1	1.53+0	1.63+0	2.07-1	9.82-2						1.19+2	
109.2	13.815	33.943	25.41	0.00	0.401	2.77-1	6.50-1	1.16+0	1.25+0	1.47-1	6.52-2						8.89+1	
114.2	13.599	33.962	25.47	0.00	0.397	1.92-1	4.82-1	8.94-1	9.75-1	1.82-1							6.67+1	
119.1	13.440	33.926	25.48	0.00	0.396	1.38-1	3.60-1	6.94-1	7.68-1	7.32-2							5.14+1	
124.2	13.274	33.901	25.49	0.00	0.393	9.49-2	2.77-1	5.51-1	6.18-1	4.98-2							4.81+1	
129.0	12.858	33.866	25.55	0.00	0.390			2.15-1	4.41-1	4.85-1							2.96+1	
134.1	12.429	33.770	25.56	0.00	0.387			1.64-1	3.53-1	3.86-1							2.34+1	
139.0	12.411	33.831	25.61	0.00	0.387			1.29-1	2.88-1	3.86-1							1.86+1	
143.9	12.281	33.827	25.63	0.00	0.386			1.02-1	2.30-1	2.43-1							1.49+1	
149.0	11.896	33.866	25.73	0.00	0.383			7.69-2	1.88-1	1.95-1							1.17+1	
153.9	11.468	33.823	25.78	0.00	0.382			6.17-2	1.54-1	1.57-1							9.64+0	
159.0	11.234	33.817	25.82	0.00	0.382			5.18-2	1.29-1	1.27-1							7.95+0	
163.9	11.143	33.851	25.86	0.00	0.381				1.06-1	1.84-1							5.33+0	
168.8	10.950	33.859	25.90	0.00	0.379				9.41-2	8.42-2							4.53+0	
173.8	10.785	33.898	25.96	0.00	0.378				7.72-2	6.78-2							3.68+0	
178.9	10.730	33.895	25.97	0.00	0.377				6.79-2	5.34-2							3.07+0	
183.8	10.626	33.937	26.02	0.00	0.375				5.57-2								1.31+0	
188.8	10.530	33.953	26.05	0.00	0.375				4.83-2								1.14+0	

Cast Label : ODEX 3 STA 72 DN CAST 10-31-82 1844Z

Lat. 31.2648N Long. 141.3676W

Z-ave M	Temp deg C	Sal. ppt	Dens. &-T	Fluor V.	Beam Atten	418 nM	441 nM	465 nM	488 nM	520 nM	548 nM	568 nM	589 nM	625 nM	671 nM	694 nM	$\Sigma$ IRR
-8.3	21.874	26.078	17.49	0.00	0.240	1.60+2	1.53+2	1.82+2	1.62+2	1.53+2	1.52+2	1.47+2	1.16+2	1.13+2	1.02+2	8.52+1	3.89+4
4.8	21.413	35.137	24.49	0.00	0.451	1.41+2	1.38+2	1.64+2	1.46+2	1.23+2	1.17+2	1.04+2	6.03+1	2.29+1	1.81+1	4.91+0	2.52+4
9.7	21.403	35.148	24.50	0.00	0.409	1.33+2	1.26+2	1.49+2	1.32+2	9.32+1	8.49+1	6.75+1	2.65+1	3.45+0	6.81-1	2.12-1	1.94+4
14.9	21.395	35.128	24.49	0.00	0.407	1.23+2	1.16+2	1.34+2	1.17+2	7.10+1	6.11+1	4.33+1	1.22+1	5.65-1	7.02-2	3.11-2	1.68+4
19.7	21.394	35.118	24.48	0.00	0.407	1.06+2	1.01+2	1.18+2	1.03+2	5.58+1	4.66+1	3.06+1	6.32+0	1.53-1	2.45-2		1.34+4
24.6	21.394	35.103	24.47	0.00	0.408	0.89+1	0.69+1	1.02+2	0.88+1	4.32+1	3.45+1	2.07+1	3.15+0	4.75-2			1.11+4
29.6	21.394	35.099	24.47	0.00	0.408	7.57+1	7.53+1	8.86+1	7.80+1	3.30+1	2.53+1	1.39+1	1.61+0				9.23+3
34.6	21.394	35.116	24.48	0.00	0.407	6.46+1	6.49+1	7.63+1	6.78+1	2.45+1	1.79+1	8.18+0	7.75-1				7.64+3
39.6	21.394	35.098	24.46	0.00	0.407	5.50+1	5.56+1	6.54+1	5.75+1	1.94+1	1.38+1	5.91+0	4.95-1				6.44+3
44.7	21.395	35.111	24.47	0.00	0.406	4.76+1	4.82+1	5.63+1	4.92+1	1.47+1	9.39+0	3.81+0	2.75-1				5.41+3
49.6	21.379	35.106	24.47	0.00	0.407	4.07+1	4.15+1	4.83+1	4.28+1	1.11+1	6.76+0	2.57+0	1.72-1				4.56+3
54.6	21.019	35.028	24.51	0.00	0.411	3.26+1	3.42+1	4.05+1	3.56+1	8.47+0	4.97+0	1.76+0	1.06-1				3.74+3
59.4	19.878	35.016	25.02	0.00	0.414	2.62+1	2.81+1	3.36+1	2.96+1	6.12+0	3.54+0	1.17+0	7.30-2				3.04+3
64.4	18.264	34.686	24.97	0.00	0.412	1.83+1	2.21+1	2.71+1	2.42+1	4.56+0	2.54+0	7.86-1	5.33-2				2.39+3
69.3	17.867	34.673	25.06	0.00	0.411	1.33+1	1.73+1	2.18+1	1.97+1	3.41+0	1.83+0	5.43-1	3.66-2				1.87+3
74.4	17.772	34.666	25.08	0.00	0.409	9.69+0	1.34+1	1.73+1	1.59+1	2.49+0	1.27+0	3.56-1					1.46+3
79.4	17.334	34.561	25.18	0.00	0.408	6.90+0	9.56+0	1.36+1	1.27+1	1.82+0	8.90-1	2.39-1					1.11+3
84.4	17.388	34.661	25.16	0.00	0.406	5.07+0	7.36+0	1.84+1	1.81+1	1.38+0	6.39-1	1.71-1					8.55+2
89.3	17.661	34.742	25.16	0.00	0.397	3.74+0	5.74+0	8.21+0	7.92+0	1.02+0	4.48-1	1.28-1					6.65+2
94.3	17.578	34.745	25.18	0.00	0.398	2.70+0	4.36+0	6.41+0	6.28+0	7.77-1	3.24-1	8.28-2					5.14+2
99.3	17.478	34.764	25.22	0.00	0.397	1.97+0	3.33+0	5.04+0	5.01+0	5.82-1	2.32-1	5.91-2					4.00+2
104.1	17.251	34.752	25.27	0.00	0.398	1.46+0	2.58+0	4.00+0	4.01+0	4.42-1	1.65-1						3.13+2
109.2	17.854	34.675	25.26	0.00	0.397	1.07+0	2.00+0	3.17+0	3.22+0	3.34-1	1.11-1						2.45+2
114.2	16.777	34.589	25.25	0.00	0.397	7.77-1	1.55+0	2.52+0	2.59+0	2.53-1	8.84-2						1.93+2
119.0	16.702	34.602	25.28	0.00	0.397	5.83-1	1.21+0	2.03+0	2.09+0	1.93-1	5.86-2						1.53+2
124.2	16.653	34.594	25.29	0.00	0.396	4.37-1	9.51-1	1.64+0	1.69+0	1.51-1							1.22+2
129.1	16.573	34.587	25.38	0.00	0.395	3.22-1	7.49-1	1.32+0	1.38+0	1.17-1							9.78+1
134.2	16.531	34.583	25.31	0.00	0.394	2.47-1	6.04-1	1.09+0	1.14+0	8.54-2							7.97+1
139.8	16.435	34.591	25.34	0.00	0.398	1.91-1	4.89-1	9.05-1	9.57-1	6.79-2							6.57+1
143.9	16.469	34.606	25.34	0.00	0.389	1.53-1	4.08-1	7.58-1	8.08-1	4.67-2							5.46+1
149.0	16.331	34.573	25.35	0.00	0.387	1.28-1	3.32-1	6.42-1	6.86-1	4.44-2							4.61+1
154.0	16.188	34.542	25.36	0.00	0.386	8.70-2	2.72-1	5.46-1	5.84-1								3.77+1
158.9	16.045	34.532	25.38	0.00	0.385		2.31-1	4.65-1	4.98-1								3.09+1
163.9	15.733	34.458	25.39	0.00	0.383		1.84-1	3.91-1	4.25-1								2.60+1
168.9	15.508	34.487	25.47	0.00	0.382		1.52-1	3.36-1	3.65-1								2.21+1
173.8	15.252	34.483	25.46	0.00	0.384		1.30-1	2.88-1	3.13-1								1.89+1
178.8	14.953	34.421	25.54	0.00	0.382		1.03-1	2.41-1	2.68-1								1.59+1
183.7	14.783	34.353	25.52	0.00	0.382		8.57-2	2.05-1	2.29-1								1.35+1
188.9	14.238	34.317	25.61	0.00	0.382		6.97-2	1.75-1	1.96-1								1.14+1

Cast Label : ODEX 3 STA 73 DN CAST 10-31-82 23522

Lat. 31.0260N Long. 141.3498W

Z-ave	Temp	Sal.	Dens.	Fluor	Beam	410 nm	441 nm	465 nm	488 nm	520 nm	548 nm	568 nm	589 nm	625 nm	671 nm	694 nm	$\Sigma$ IRR	$\text{mW/cm}^2$
M	deg C	ppt	&T	V.	Atten													
0.0	21.846	34.983	24.47	0.00	0.427	5.13+1	4.53+1	5.15+1	4.48+1	3.98+1	3.90+1	3.72+1	2.83+1	2.57+1	2.25+1	1.79+1	1.82+4	
4.7	21.847	34.971	24.46	0.00	0.415	4.76+1	4.19+1	4.74+1	4.09+1	3.19+1	3.01+1	2.62+1	1.44+1	5.47+0	2.35+0	1.13+0	6.99+3	
9.7	21.823	34.976	24.47	0.00	0.414	4.42+1	3.91+1	4.40+1	3.77+1	2.59+1	2.34+1	1.86+1	7.23+0	1.08+0	2.40-1	7.73-2	5.72+3	
14.8	21.818	34.969	24.47	0.00	0.414	4.07+1	3.64+1	4.08+1	3.49+1	2.12+1	1.83+1	1.33+1	3.69+0	2.29-1	2.26-2		4.93+3	
19.7	20.979	34.967	24.48	0.00	0.415	3.74+1	3.39+1	3.79+1	3.23+1	1.74+1	1.44+1	8.94+0	1.95+0	4.70-2			4.31+3	
24.7	20.958	34.971	24.49	0.00	0.416	3.42+1	3.13+1	3.49+1	2.97+1	1.44+1	1.12+1	6.61+0	1.17+0				3.82+3	
29.7	20.954	34.967	24.48	0.00	0.416	3.07+1	2.85+1	3.17+1	2.70+1	1.17+1	8.38+0	4.67+0	6.47-1				3.36+3	
34.6	20.954	34.968	24.49	0.00	0.417	2.73+1	2.57+1	2.85+1	2.42+1	9.10+0	6.39+0	3.27+0	3.63-1				2.92+3	
39.6	20.960	34.968	24.48	0.00	0.417	2.41+1	2.29+1	2.54+1	2.15+1	7.01+0	4.84+0	2.29+0	2.09-1				2.53+3	
44.6	20.960	34.977	24.49	0.00	0.416	2.07+1	2.01+1	2.23+1	1.89+1	5.48+0	3.63+0	1.59+0	1.22-1				2.18+3	
49.6	20.921	34.998	24.52	0.00	0.417	1.68+1	1.75+1	1.95+1	1.64+1	4.27+0	2.72+0	1.10+0	7.41-2				1.85+3	
54.6	20.539	34.976	24.68	0.00	0.421	1.39+1	1.49+1	1.66+1	1.41+1	3.29+0	2.01+0	7.59-1	4.61-2				1.55+3	
59.4	19.541	34.836	24.76	0.00	0.423	1.11+1	1.24+1	1.40+1	1.18+1	2.52+0	1.47+0	5.20-1					1.27+3	
64.3	19.245	34.766	24.78	0.00	0.424	8.78+0	9.66+0	1.19+1	9.83+0	1.94+0	1.10+0	3.68-1					1.83+3	
69.4	18.443	34.762	24.98	0.00	0.419	6.79+0	7.86+0	9.35+0	8.13+0	1.54+0	8.31-1	2.68-1					8.28+2	
74.4	18.355	34.713	24.97	0.00	0.417	5.09+0	6.24+0	7.63+0	6.75+0	1.19+0	6.04-1	1.87-1					6.63+2	
79.4	18.826	34.778	25.10	0.00	0.414	3.83+0	4.95+0	6.22+0	5.59+0	9.08-1	4.48-1	1.31-1					5.31+2	
84.4	17.605	34.664	25.11	0.00	0.414	2.84+0	3.87+0	5.03+0	4.60+0	6.97-1	3.31-1	8.84-2					4.22+2	
89.4	17.468	34.673	25.15	0.00	0.413	2.09+0	3.00+0	4.02+0	3.74+0	5.32-1	2.38-1	6.48-2					3.32+2	
94.3	17.145	34.638	25.20	0.00	0.418	1.51+0	2.30+0	3.18+0	3.02+0	4.00-1	1.62-1						2.58+2	
99.4	16.921	34.551	25.19	0.00	0.413	1.09+0	1.75+0	2.49+0	2.42+0	3.03-1	1.17-1						2.00+2	
104.3	16.880	34.568	25.21	0.00	0.409	8.00-1	1.34+0	1.97+0	1.95+0	2.33-1	8.48-2						1.57+2	
109.2	16.854	34.602	25.25	0.00	0.399	6.00-1	1.84+0	1.58+0	1.57+0	1.73-1	5.74-2						1.24+2	
114.2	16.885	34.599	25.26	0.00	0.397	4.52-1	8.15-1	1.26+0	1.27+0	1.40-1							9.77+1	
119.1	16.888	34.616	25.27	0.00	0.397	3.31-1	6.41-1	1.02+0	1.04+0	1.04-1							7.88+1	
124.2	16.738	34.602	25.27	0.00	0.397	2.48-1	5.06-1	8.23-1	8.55-1	8.84-2							6.27+1	
129.1	16.710	34.579	25.26	0.00	0.395	1.83-1	4.04-1	6.76-1	7.89-1	6.64-2							5.11+1	
134.1	16.528	34.595	25.32	0.00	0.392	1.46-1	3.38-1	5.64-1	5.95-1	4.19-2							4.21+1	
139.8	16.367	34.558	25.33	0.00	0.388	1.04-1	2.71-1	4.74-1	5.85-1								3.41+1	
144.8	16.267	34.559	25.35	0.00	0.387	8.34-2	2.27-1	4.04-1	4.32-1								2.89+1	
149.8	16.105	34.513	25.35	0.00	0.385		1.88-1	3.52-1	3.72-1								2.37+1	
154.8	15.887	34.426	25.33	0.00	0.384		1.58-1	3.02-1	3.22-1								2.03+1	
158.9	15.798	34.498	25.41	0.00	0.384		1.32-1	2.61-1	2.88-1								1.75+1	
163.9	15.714	34.485	25.42	0.00	0.384		1.14-1	2.32-1	2.46-1								1.54+1	
168.9	15.743	34.516	25.44	0.00	0.384		9.30-2	2.00-1	2.19-1								1.33+1	
173.9	15.456	34.466	25.46	0.00	0.383		8.06-2	1.75-1	1.95-1								1.17+1	
178.7	15.068	34.505	25.58	0.00	0.382		6.51-2	1.55-1	1.72-1								1.02+1	
183.9	14.861	34.383	25.53	0.00	0.382		5.35-2	1.33-1	1.47-1								8.63+0	
188.8	14.521	34.365	25.59	0.00	0.382			1.15-1	1.22-1								6.05+0	

Cast Label : ODEX 3 STA 73 UP CAST 10-31-82 2359Z

Lat. 31.026N Long. 141.349W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Fluor V.	Beam Atten	418 nM	441 nM	465 nM	488 nM	528 nM	540 nM	569 nM	589 nM	625 nM	671 nM	694 nM	$\Sigma$ IRR
-8.4	20.871	32.001	22.25	0.00	1.268	8.35+1	7.43+1	8.68+1	7.63+1	7.86+1	6.92+1	6.64+1	5.16+1	5.03+1	4.56+1	3.74+1	1.81+4
4.4	21.848	34.973	24.46	0.00	0.412	7.68+1	6.83+1	7.87+1	6.86+1	5.52+1	5.22+1	4.61+1	2.66+1	1.15+1	5.67+0	2.80+0	1.28+4
9.2	21.041	34.976	24.47	0.00	0.412	6.81+1	6.16+1	7.07+1	6.15+1	4.35+1	3.94+1	3.15+1	1.29+1	1.98+0	4.54-1	1.51-1	9.31+3
14.2	21.016	34.973	24.47	0.00	0.413	6.84+1	5.53+1	6.31+1	5.45+1	3.39+1	2.93+1	2.14+1	6.23+0	3.92-1	4.73-2		7.65+3
19.2	20.988	34.988	24.49	0.00	0.413	5.31+1	4.89+1	5.54+1	4.77+1	2.62+1	2.19+1	1.47+1	3.28+0	8.62-2			6.37+3
24.2	20.966	34.973	24.49	0.00	0.414	4.68+1	4.27+1	4.82+1	4.13+1	2.83+1	1.63+1	9.55+0	1.78+0				5.38+3
29.1	20.962	34.969	24.48	0.00	0.413	3.97+1	3.71+1	4.18+1	3.56+1	1.55+1	1.16+1	6.25+0	8.68-1				4.41+3
34.2	20.962	34.968	24.48	0.00	0.414	3.42+1	3.23+1	3.62+1	3.88+1	1.21+1	8.34+0	4.27+0	4.86-1				3.72+3
39.1	20.961	34.978	24.49	0.00	0.415	2.94+1	2.81+1	3.15+1	2.67+1	9.01+0	6.17+0	2.91+0	2.75-1				3.14+3
44.1	20.946	34.984	24.50	0.00	0.414	2.53+1	2.44+1	2.72+1	2.31+1	6.76+0	4.49+0	1.94+0	1.48-1				2.66+3
49.1	20.894	35.006	24.53	0.00	0.417	2.15+1	2.09+1	2.35+1	2.08+1	5.18+0	3.31+0	1.31+0	8.42-2				2.24+3
53.9	20.337	35.057	24.72	0.00	0.417	1.69+1	1.80+1	2.81+1	1.71+1	4.03+0	2.48+0	9.20-1	5.18-2				1.88+3
59.8	19.386	34.889	24.84	0.00	0.420	1.34+1	1.48+1	1.68+1	1.44+1	3.05+0	1.80+0	6.16-1	3.87-2				1.54+3
63.9	18.679	34.861	25.00	0.00	0.419	1.03+1	1.20+1	1.39+1	1.19+1	2.32+0	1.32+0	4.21-1					1.24+3
68.9	18.378	34.746	24.99	0.00	0.417	7.97+0	9.23+0	1.17+1	9.76+0	1.80+0	9.90-1	2.92-1					9.96+2
74.0	18.176	34.832	25.10	0.00	0.414	5.99+0	7.32+0	9.08+0	7.94+0	1.38+0	7.36-1	2.86-1					7.88+2
78.8	17.678	34.722	25.14	0.00	0.413	4.45+0	5.72+0	7.23+0	6.47+0	1.03+0	5.26-1	1.38-1					6.15+2
83.8	17.568	34.697	25.15	0.00	0.418	3.28+0	4.44+0	5.77+0	5.26+0	7.83-1	3.86-1	9.43-2					4.84+2
88.8	17.292	34.624	25.16	0.00	0.412	2.40+0	3.41+0	4.58+0	4.25+0	5.93-1	2.80-1	6.44-2					3.78+2
93.8	16.913	34.623	25.25	0.00	0.418	1.73+0	2.59+0	3.58+0	3.39+0	4.44-1	1.99-1						2.91+2
98.8	16.758	34.541	25.22	0.00	0.409	1.25+0	1.96+0	2.78+0	2.68+0	3.32-1	1.46-1						2.24+2
103.7	16.776	34.515	25.20	0.00	0.407	9.01-1	1.48+0	2.15+0	2.11+0	2.46-1	1.13-1						1.72+2
108.7	16.825	34.576	25.23	0.00	0.399	6.57-1	1.12+0	1.68+0	1.66+0	1.85-1	7.41-2						1.32+2
113.7	16.789	34.628	25.28	0.00	0.397	4.87-1	8.70-1	1.33+0	1.32+0	1.36-1	5.97-2						1.04+2
118.6	16.802	34.624	25.28	0.00	0.397	3.64-1	6.77-1	1.06+0	1.06+0	9.42-2							8.88+1
123.6	16.741	34.624	25.29	0.00	0.397	2.68-1	5.37-1	8.56-1	8.62-1	8.19-2							6.49+1
128.6	16.514	34.628	25.34	0.00	0.391	2.06-1	4.24-1	6.95-1	7.07-1	5.49-2							5.21+1
133.6	16.335	34.577	25.35	0.00	0.388	1.61-1	3.47-1	5.81-1	5.86-1								4.18+1
138.4	16.303	34.558	25.34	0.00	0.387	1.25-1	2.83-1	4.82-1	4.90-1								3.45+1
143.5	16.159	34.563	25.38	0.00	0.385	9.74-2	2.38-1	4.82-1	4.13-1								2.89+1
148.6	16.122	34.524	25.36	0.00	0.384		1.92-1	3.41-1	3.48-1								2.29+1
153.5	15.899	34.517	25.40	0.00	0.383		1.68-1	2.89-1	2.94-1								1.93+1
158.4	15.817	34.517	25.42	0.00	0.383		1.34-1	2.44-1	2.48-1								1.63+1
163.4	15.798	34.519	25.43	0.00	0.383		1.11-1	1.98-1	2.10-1								1.35+1
168.3	15.708	34.504	25.44	0.00	0.383		8.83-2	1.70-1	1.79-1								1.13+1
173.4	15.266	34.456	25.50	0.00	0.382		7.57-2	1.53-1	1.52-1								9.86+0
178.4	14.921	34.432	25.55	0.00	0.382		6.19-2	1.23-1	1.31-1								8.18+0
183.2	14.703	34.414	25.59	0.00	0.381		5.07-2	9.85-2	1.13-1								6.88+0
188.4	14.229	34.358	25.65	0.00	0.381			1.04-1	9.73-2								5.12+0

Cast Label : ODEX 3 STA 77B UP CAST 11-1-82 21332

Lat. 30.0210N Long. 141.2210W

Z-ave	Temp	Sal.	Dens.	Fluor	Beam	410 nm	441 nm	465 nm	488 nm	520 nm	540 nm	560 nm	589 nm	625 nm	671 nm	694 nm	$\Sigma$ IRR
-0.4	21.333	26.566	18.00	0.00	4.888	1.21+2	1.04+2	1.20+2	1.04+2	9.45+1	9.26+1	8.86+1	6.84+1	6.57+1	5.81+1	4.79+1	2.44+4
4.3	21.384	34.986	24.38	0.00	0.410	1.09+2	9.48+1	1.06+2	9.14+1	7.29+1	6.98+1	6.11+1	3.64+1	1.63+1	8.19+0	4.28+0	1.63+4
9.3	21.242	35.004	24.44	0.00	0.413	9.67+1	8.44+1	9.45+1	8.89+1	5.67+1	5.14+1	4.15+1	1.78+1	3.00+0	7.37-1	2.61-1	1.25+4
14.3	21.210	34.989	24.43	0.00	0.414	8.55+1	7.56+1	8.41+1	7.16+1	4.42+1	3.85+1	2.83+1	9.10+0	6.27-1	8.68-2	3.35-2	1.03+4
19.3	21.210	34.989	24.43	0.00	0.414	7.58+1	6.78+1	7.50+1	6.34+1	3.49+1	2.92+1	1.97+1	4.53+0	1.45-1			8.67+3
24.3	21.197	34.993	24.44	0.00	0.415	6.66+1	6.02+1	6.64+1	5.60+1	2.71+1	2.18+1	1.35+1	2.31+0	2.98-2			7.33+3
29.1	21.052	34.986	24.47	0.00	0.415	5.84+1	5.33+1	5.85+1	4.92+1	2.15+1	1.67+1	0.98+0	1.31+0				6.25+3
34.1	21.006	34.988	24.48	0.00	0.417	5.07+1	4.69+1	5.14+1	4.31+1	1.69+1	1.23+1	0.64+0	0.74-1				5.33+3
39.1	20.911	34.984	24.51	0.00	0.417	4.37+1	4.11+1	4.49+1	3.76+1	1.33+1	0.93+0	0.42+0	0.40-1				4.54+3
44.1	20.879	34.983	24.52	0.00	0.415	3.76+1	3.58+1	3.91+1	3.27+1	1.82+1	0.78+0	0.26+0	0.24-1				3.87+3
49.1	20.853	34.971	24.52	0.00	0.415	3.23+1	3.11+1	3.40+1	2.84+1	0.78+0	0.49+0	0.28+0	0.14-1				3.29+3
54.0	20.798	34.977	24.54	0.00	0.415	2.74+1	2.68+1	2.93+1	2.45+1	0.95+0	0.37+0	0.14+0	0.86-2				2.79+3
59.0	20.129	35.242	24.92	0.00	0.421	2.30+1	2.28+1	2.51+1	2.10+1	0.55+0	0.27+0	0.95-1	0.52-2				2.35+3
64.0	18.889	34.886	24.90	0.00	0.423	1.71+1	1.88+1	2.10+1	1.77+1	0.48+0	0.20+0	0.56-1	0.32-2				1.91+3
68.9	18.417	34.781	25.00	0.00	0.419	1.31+1	1.53+1	1.73+1	1.48+1	0.66+0	0.49+0	0.46-1					1.55+3
73.9	18.192	34.720	25.01	0.00	0.417	9.74+0	1.21+1	1.40+1	1.21+1	0.80+0	0.67+0	0.30-1					1.23+3
78.8	17.984	34.787	25.06	0.00	0.416	7.46+0	9.17+0	1.17+1	0.84+0	0.55+0	0.88-1	0.21-1					9.75+2
83.8	17.801	34.684	25.08	0.00	0.415	5.61+0	7.26+0	8.97+0	7.95+0	0.18+0	0.62-1	0.54-1					7.62+2
88.9	17.748	34.709	25.12	0.00	0.413	4.10+0	5.59+0	7.12+0	6.41+0	0.85-1	4.31-1	0.81-1					5.95+2
93.7	17.266	34.593	25.14	0.00	0.414	3.01+0	4.30+0	5.64+0	5.16+0	0.68-1	3.13-1	0.86-2					4.65+2
98.8	17.101	34.648	25.22	0.00	0.413	2.17+0	3.27+0	4.43+0	4.15+0	0.52-1	2.29-1	0.48-2					3.61+2
103.7	16.619	34.519	25.24	0.00	0.416	1.56+0	2.49+0	3.48+0	3.31+0	0.77-1	1.62-1						2.79+2
108.9	16.422	34.519	25.28	0.00	0.418	1.12+0	1.88+0	2.72+0	2.65+0	0.87-1	1.22-1						2.16+2
113.8	16.304	34.479	25.28	0.00	0.407	8.07-1	1.42+0	2.13+0	2.11+0	0.21-1	0.87-2						1.67+2
118.6	16.187	34.515	25.33	0.00	0.397	5.94-1	1.10+0	1.68+0	1.49+0	0.13-1							1.30+2
123.6	15.965	34.492	25.37	0.00	0.397	4.29-1	8.37-1	1.33+0	1.36+0	0.12-1							1.02+2
128.5	15.818	34.410	25.34	0.00	0.395	3.20-1	6.58-1	1.07+0	0.10+0	0.92-2							8.10+1
133.6	15.931	34.433	25.33	0.00	0.393	2.45-1	5.27-1	8.75-1	9.86-1	0.63-2							6.54+1
138.6	15.888	34.498	25.39	0.00	0.389	1.84-1	4.25-1	7.26-1	7.55-1	0.58-2							5.38+1
143.4	15.687	34.517	25.45	0.00	0.388	1.42-1	3.44-1	6.07-1	6.37-1	0.45-2							4.46+1
148.5	15.305	34.551	25.56	0.00	0.387	1.11-1	2.87-1	5.17-1	5.43-1								3.67+1
153.5	15.105	34.426	25.51	0.00	0.388	0.36-2	2.43-1	4.47-1	4.65-1								3.12+1
158.5	14.978	34.358	25.48	0.00	0.387		1.93-1	3.67-1	3.98-1								2.49+1
163.4	14.567	34.587	25.69	0.00	0.384		1.64-1	3.05-1	3.41-1								2.11+1
168.3	14.230	34.249	25.56	0.00	0.383		1.32-1	2.61-1	2.92-1								1.78+1
173.3	14.887	34.283	25.63	0.00	0.383		1.07-1	2.13-1	2.48-1								1.48+1
178.4	13.695	34.262	25.68	0.00	0.384		0.86-2	1.89-1	2.10-1								1.27+1
183.3	13.071	34.230	25.78	0.00	0.382		0.71-2	1.56-1	1.77-1								1.05+1
188.4	12.989	34.151	25.76	0.00	0.382		0.59-2	1.32-1	1.50-1								0.87+0

Cast Label : ODEX 3 STA 79 UP CAST 11-2-82 1920Z

Lat. 38.5753N Long. 148.5419W

Z-ave	Temp	Sal.	Dens.	Fluor	Beam	418 nm	441 nm	465 nm	488 nm	520 nm	548 nm	560 nm	589 nm	625 nm	671 nm	694 nm	$\Sigma$ IRR
0.8	21.589	34.944	24.32	0.00	0.405	1.68+2	1.49+2	1.73+2	1.52+2	1.35+2	1.32+2	1.26+2	9.23+1	7.34+1	5.70+1	4.25+1	3.26+4
5.8	21.581	34.942	24.32	0.00	0.403	1.47+2	1.32+2	1.52+2	1.32+2	1.04+2	9.77+1	8.47+1	4.53+1	1.52+1	6.17+0	2.71+0	2.22+4
10.8	21.368	35.829	24.42	0.00	0.406	1.38+2	1.17+2	1.34+2	1.16+2	7.98+1	7.18+1	5.65+1	2.18+1	2.74+0	5.41-1	1.77-1	1.73+4
15.7	21.395	35.133	24.49	0.00	0.406	1.15+2	1.04+2	1.19+2	1.02+2	6.24+1	5.40+1	3.98+1	1.16+1	6.37-1	7.92-2	3.81-2	1.43+4
20.7	21.387	35.132	24.49	0.00	0.407	1.81+2	9.24+1	1.85+2	8.99+1	4.86+1	4.03+1	2.67+1	5.74+0	1.41-1			1.28+4
25.6	21.388	35.132	24.49	0.00	0.406	8.76+1	8.15+1	9.23+1	7.89+1	3.79+1	3.03+1	1.85+1	3.86+0	3.43-2			1.01+4
30.6	21.375	35.132	24.50	0.00	0.407	7.66+1	7.19+1	8.12+1	6.93+1	2.97+1	2.29+1	1.26+1	1.69+0				8.57+3
35.7	21.374	35.145	24.51	0.00	0.406	6.66+1	6.33+1	7.15+1	6.89+1	2.32+1	1.71+1	8.24+0	9.09-1				7.38+3
40.6	21.367	35.159	24.52	0.00	0.405	5.77+1	5.57+1	6.29+1	5.36+1	1.84+1	1.29+1	5.81+0	5.50-1				6.28+3
45.6	21.277	35.234	24.68	0.00	0.405	4.97+1	4.87+1	5.50+1	4.69+1	1.46+1	9.55+0	4.03+0	3.28-1				5.37+3
50.6	20.719	35.889	24.64	0.00	0.406	4.28+1	4.18+1	4.75+1	4.86+1	1.14+1	6.93+0	2.74+0	1.94-1				4.54+3
55.6	20.888	34.975	24.72	0.00	0.408	3.43+1	3.49+1	4.02+1	3.46+1	8.51+0	5.17+0	1.98+0	1.31-1				3.76+3
60.4	19.677	34.949	24.81	0.00	0.413	2.73+1	2.86+1	3.35+1	2.91+1	6.41+0	3.84+0	1.32+0	8.96-2				3.08+3
65.5	19.896	34.795	24.84	0.00	0.406	2.14+1	2.33+1	2.77+1	2.43+1	4.88+0	2.81+0	9.02-1	5.95-2				2.58+3
70.4	18.976	34.854	24.92	0.00	0.405	1.55+1	1.89+1	2.30+1	2.04+1	3.76+0	2.10+0	6.34-1	4.42-2				2.02+3
75.4	18.714	34.834	24.97	0.00	0.404	1.18+1	1.52+1	1.98+1	1.71+1	2.88+0	1.55+0	4.27-1	3.18-2				1.63+3
80.3	18.601	34.812	24.98	0.00	0.397	8.97+0	1.23+1	1.56+1	1.43+1	2.22+0	1.16+0	2.99-1					1.32+3
85.3	18.426	34.887	25.02	0.00	0.399	7.08+0	9.47+0	1.32+1	1.19+1	1.74+0	8.70-1	2.16-1					1.07+3
90.4	18.260	34.796	25.05	0.00	0.397	5.28+0	7.41+0	1.03+1	9.87+0	1.33+0	6.47-1	1.46-1					8.48+2
95.3	17.991	34.883	25.13	0.00	0.397	4.82+0	6.02+0	8.46+0	8.13+0	1.07+0	5.00-1	1.07-1					6.91+2
100.2	17.868	34.788	25.08	0.00	0.397	2.99+0	4.74+0	6.83+0	6.67+0	8.15-1	3.68-1	7.18-2					5.51+2
105.3	17.686	34.679	25.13	0.00	0.396	2.21+0	3.78+0	5.48+0	5.42+0	6.27-1	2.88-1						4.36+2
110.3	17.516	34.786	25.17	0.00	0.394	1.63+0	2.87+0	4.37+0	4.37+0	4.73-1	2.81-1						3.43+2
115.3	17.393	34.598	25.11	0.00	0.391	1.19+0	2.22+0	3.46+0	3.50+0	3.51-1	1.39-1						2.69+2
120.2	17.612	34.719	25.15	0.00	0.390	8.66-1	1.71+0	2.75+0	2.80+0	2.65-1	1.15-1						2.11+2
125.1	17.491	34.776	25.23	0.00	0.389	6.51-1	1.35+0	2.22+0	2.26+0	1.97-1	8.01-2						1.68+2
130.0	16.994	34.750	25.33	0.00	0.386	4.88-1	1.08+0	1.82+0	1.87+0	1.49-1	6.00-2						1.36+2
135.0	16.743	34.661	25.32	0.00	0.385	3.73-1	8.76-1	1.52+0	1.57+0	1.11-1							1.12+2
140.0	16.559	34.689	25.32	0.00	0.384	2.85-1	7.24-1	1.38+0	1.33+0	8.95-2							9.38+1
146.6	16.012	34.618	25.45	0.00	0.383	2.16-1	5.92-1	1.09+0	1.13+0	6.79-2							7.80+1
150.0	15.547	34.471	25.45	0.00	0.382	1.68-1	4.79-1	9.07-1	9.41-1	3.98-2							6.38+1
154.9	15.189	34.398	25.46	0.00	0.381	1.18-1	3.77-1	7.33-1	7.68-1								5.86+1
160.0	15.079	34.346	25.45	0.00	0.382			3.82-1	5.85-1	6.12-1							3.89+1
164.9	14.898	34.308	25.47	0.00	0.381			2.28-1	4.61-1	4.88-1							3.03+1
169.9	14.335	34.263	25.55	0.00	0.381			1.71-1	3.61-1	3.75-1							2.35+1
174.8	14.154	34.233	25.56	0.00	0.380			1.37-1	2.87-1	2.92-1							1.85+1
179.7	13.742	34.176	25.61	0.00	0.379			1.82-1	2.21-1	2.28-1							1.43+1
184.7	13.401	34.155	25.66	0.00	0.378			7.73-2	1.76-1	1.73-1							1.10+1
189.8	12.988	34.185	25.70	0.00	0.378			5.57-2	1.38-1	1.23-1							7.97+0

Cast Label : ODEX 3 STA 84 DN CAST 11-3-82 2010Z

Lat. 32.5946N Long. 148.4784W

Z-ave	Temp	Sal.	Dens.	Fluor	Beam	410 nm	441 nm	465 nm	488 nm	520 nm	540 nm	560 nm	589 nm	625 nm	671 nm	694 nm	$\Sigma$ IRR	:W/cm <sup>2</sup> :
M	deg C	ppt	&T	V.	Atten													
-0.3	28.164	28.647	19.88	0.00	0.336	1.75+2	1.59+2	1.87+2	1.66+2	1.55+2	1.54+2	1.48+2	1.22+2	1.14+2	1.03+2	9.28+1	4.08+4	
4.9	28.823	35.134	24.65	0.00	0.415	1.58+2	1.43+2	1.68+2	1.49+2	1.17+2	1.12+2	9.79+1	5.49+1	1.93+1	8.24+0	4.84+0	2.58+4	
9.7	28.822	35.095	24.62	0.00	0.412	1.35+2	1.38+2	1.52+2	1.35+2	9.78+1	8.93+1	7.22+1	3.07+1	4.39+0	9.22-1	3.01-1	2.03+4	
14.9	28.824	35.087	24.61	0.00	0.411	1.24+2	1.17+2	1.38+2	1.22+2	7.53+1	6.59+1	4.88+1	1.44+1	7.66-1	9.38-2	3.38-2	1.67+4	
19.7	28.818	35.093	24.62	0.00	0.412	1.85+2	1.84+2	1.23+2	1.18+2	6.18+1	5.22+1	3.51+1	8.19+0	1.95-1	2.56-2		1.42+4	
24.6	28.818	35.087	24.61	0.00	0.411	9.56+1	9.48+1	1.12+2	9.85+1	4.82+1	3.88+1	2.37+1	3.91+0	5.79-2			1.22+4	
29.6	28.818	35.086	24.61	0.00	0.411	8.25+1	8.42+1	9.99+1	8.86+1	3.89+1	3.83+1	1.78+1	2.17+0	2.77-2			1.05+4	
34.7	28.818	35.087	24.61	0.00	0.410	7.34+1	7.55+1	8.94+1	7.89+1	3.08+1	2.30+1	1.16+1	1.22+0				9.07+3	
39.6	28.818	35.086	24.61	0.00	0.411	6.38+1	6.62+1	7.85+1	6.92+1	2.41+1	1.73+1	7.67+0	6.83-1				7.73+3	
44.5	28.817	35.088	24.61	0.00	0.411	5.41+1	5.76+1	6.83+1	6.81+1	1.89+1	1.27+1	5.28+0	4.86-1				6.56+3	
49.7	28.816	35.087	24.61	0.00	0.410	4.59+1	4.97+1	5.98+1	5.28+1	1.46+1	8.99+0	3.54+0	2.47-1				5.55+3	
54.5	28.807	35.092	24.62	0.00	0.410	3.84+1	4.24+1	5.86+1	4.48+1	1.14+1	6.70+0	2.45+0	1.54-1				4.68+3	
59.4	28.785	35.089	24.62	0.00	0.414	3.26+1	3.63+1	4.34+1	3.83+1	8.52+0	4.87+0	1.65+0	1.01-1				3.94+3	
64.4	28.532	35.090	24.69	0.00	0.415	2.68+1	3.03+1	3.65+1	3.23+1	6.27+0	3.55+0	1.13+0	6.73-2				3.26+3	
69.4	19.011	34.904	24.95	0.00	0.417	2.02+1	2.43+1	2.99+1	2.68+1	4.72+0	2.55+0	7.64-1	4.96-2				2.62+3	
74.4	18.535	34.835	25.02	0.00	0.415	1.43+1	1.91+1	2.42+1	2.28+1	3.57+0	1.86+0	5.33-1	3.84-2				2.06+3	
79.4	18.074	34.779	25.09	0.00	0.414	1.05+1	1.49+1	1.93+1	1.79+1	2.67+0	1.33+0	3.66-1					1.62+3	
84.3	17.986	34.882	25.15	0.00	0.410	7.52+0	1.12+1	1.52+1	1.44+1	2.01+0	9.63-1	2.54-1					1.26+3	
89.3	17.751	34.758	25.15	0.00	0.409	5.61+0	8.34+0	1.24+1	1.15+1	1.52+0	6.91-1	1.80-1					9.88+2	
94.4	17.548	34.705	25.16	0.00	0.408	4.84+0	6.31+0	9.05+0	9.12+0	1.12+0	4.86-1	1.27-1					7.42+2	
99.4	17.488	34.715	25.18	0.00	0.407	2.97+0	4.89+0	7.21+0	7.24+0	8.58-1	3.63-1	8.98-2					5.81+2	
104.3	17.195	34.666	25.21	0.00	0.406	2.17+0	3.74+0	5.65+0	5.77+0	6.46-1	2.47-1	6.75-2					4.51+2	
109.1	17.022	34.662	25.25	0.00	0.405	1.58+0	2.85+0	4.44+0	4.68+0	4.90-1	1.77-1	4.98-2					3.51+2	
114.3	16.912	34.647	25.27	0.00	0.402	1.15+0	2.19+0	3.58+0	3.68+0	3.66-1	1.23-1						2.74+2	
119.1	16.832	34.648	25.28	0.00	0.408	8.54-1	1.70+0	2.78+0	2.95+0	2.81-1	9.14-2						2.16+2	
124.2	16.765	34.620	25.28	0.00	0.397	6.19-1	1.30+0	2.21+0	2.38+0	2.18-1	6.38-2						1.69+2	
129.0	16.691	34.635	25.31	0.00	0.397	4.54-1	1.03+0	1.78+0	1.92+0	1.59-1							1.34+2	
134.1	16.466	34.604	25.34	0.00	0.395	3.42-1	8.10-1	1.43+0	1.57+0	1.27-1							1.08+2	
138.9	16.385	34.591	25.35	0.00	0.394	2.58-1	6.44-1	1.17+0	1.29+0	9.11-2							8.69+1	
143.8	16.337	34.598	25.36	0.00	0.393	1.96-1	5.14-1	9.55-1	1.06+0	8.03-2							7.08+1	
149.0	16.234	34.546	25.35	0.00	0.392	1.48-1	4.11-1	7.84-1	8.78-1	5.73-2							5.77+1	
154.0	15.772	34.540	25.45	0.00	0.389	1.06-1	3.38-1	6.48-1	7.33-1								4.61+1	
159.0	15.426	34.433	25.44	0.00	0.385			2.66-1	5.38-1	6.16-1							3.69+1	
163.8	15.282	34.445	25.48	0.00	0.384			2.21-1	4.58-1	5.22-1							3.12+1	
168.9	15.204	34.414	25.48	0.00	0.384			1.78-1	3.87-1	4.44-1							2.62+1	
173.8	14.914	34.384	25.46	0.00	0.383			1.42-1	3.22-1	3.80-1							2.19+1	
178.9	14.543	34.332	25.56	0.00	0.383			1.21-1	2.82-1	3.38-1							1.98+1	
183.8	14.856	34.310	25.64	0.00	0.382			1.01-1	2.58-1	2.99-1							1.69+1	

PREMATURE END OF DATA FILE

Cast Label : ODEX 3 STA 105 DN CAST 11-5-82 2003Z

Lat. 32.4650N Long. 141.2380W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Fluor V.	Beam Atten	418 nM	441 nM	465 nM	488 nM	528 nM	548 nM	568 nM	589 nM	625 nM	671 nM	694 nM	$\Sigma$ IRR -W/cm <sup>2</sup> -
0.9	20.982	21.854	14.52	0.00	0.415	2.03+2	1.88+2	2.24+2	2.00+2	1.83+2	1.82+2	1.74+2	1.33+2	1.06+2	8.38+1	6.58+1	4.41+4
5.8	20.988	23.956	16.11	0.00	0.414	1.84+2	1.68+2	1.97+2	1.74+2	1.35+2	1.28+2	1.18+2	5.91+1	1.84+1	7.18+0	3.05+0	2.86+4
10.7	20.979	24.174	16.28	0.00	0.414	1.58+2	1.48+2	1.72+2	1.51+2	1.02+2	9.16+1	7.89+1	2.67+1	2.88+0	4.82-1	1.50-1	2.19+4
15.8	20.978	24.186	16.23	0.00	0.415	1.30+2	1.25+2	1.47+2	1.30+2	8.05+1	7.02+1	5.04+1	1.45+1	6.55-1	7.57-2	3.12-2	1.77+4
20.8	20.974	24.525	16.55	0.00	0.415	1.18+2	1.08+2	1.28+2	1.13+2	6.02+1	5.02+1	3.23+1	6.49+0	1.11-1	2.09-2		1.44+4
25.7	20.976	24.839	16.78	0.00	0.416	9.53+1	9.48+1	1.11+2	9.79+1	4.68+1	3.74+1	2.23+1	3.49+0	3.57-2			1.28+4
30.7	20.975	25.383	17.20	0.00	0.415	8.31+1	8.31+1	9.70+1	8.49+1	3.54+1	2.71+1	1.47+1	1.74+0				1.01+4
35.7	20.972	24.943	16.86	0.00	0.415	7.22+1	7.31+1	8.48+1	7.38+1	2.72+1	2.00+1	9.24+0	9.13-1				8.52+3
40.6	20.978	25.727	17.46	0.00	0.415	6.28+1	6.38+1	7.44+1	6.49+1	2.28+1	1.57+1	6.77+0	5.87-1				7.32+3
45.6	20.971	26.241	17.85	0.00	0.415	5.48+1	5.73+1	6.67+1	5.79+1	1.72+1	1.13+1	4.46+0	3.21-1				6.38+3
50.6	20.972	25.926	17.61	0.00	0.415	4.75+1	5.08+1	5.92+1	5.17+1	1.40+1	8.51+0	3.20+0	2.10-1				5.57+3
55.6	20.974	26.296	17.89	0.00	0.415	4.82+1	4.38+1	5.16+1	4.52+1	1.11+1	6.45+0	2.24+0	1.36-1				4.76+3
60.5	20.972	26.157	17.78	0.00	0.415	3.45+1	3.78+1	4.42+1	3.85+1	7.99+0	4.62+0	1.47+0	8.75-2				4.01+3
65.4	20.961	25.957	17.64	0.00	0.414	2.86+1	3.17+1	3.72+1	3.24+1	5.99+0	3.37+0	9.88-1	5.49-2				3.33+3
70.4	19.708	27.208	18.90	0.00	0.428	2.29+1	2.59+1	3.08+1	2.71+1	4.52+0	2.43+0	6.52-1	3.60-2				2.72+3
75.4	18.258	28.119	19.95	0.00	0.428	1.58+1	2.03+1	2.50+1	2.25+1	3.51+0	1.84+0	4.61-1					2.15+3
80.4	17.687	27.861	19.89	0.00	0.428	1.15+1	1.57+1	2.00+1	1.83+1	2.67+0	1.36+0	3.09-1					1.69+3
85.4	17.195	28.107	20.19	0.00	0.419	8.18+0	1.19+1	1.56+1	1.46+1	1.96+0	9.60-1	1.93-1					1.30+3
90.3	16.962	27.830	20.03	0.00	0.418	5.82+0	8.46+0	1.23+1	1.14+1	1.45+0	6.89-1	1.18-1					9.80+2
95.2	16.724	27.682	19.91	0.00	0.414	4.12+0	6.31+0	8.95+0	8.83+0	1.08+0	4.98-1	7.21-2					7.30+2
100.3	16.563	27.861	19.53	0.00	0.487	2.93+0	4.77+0	6.98+0	6.86+0	8.05-1	3.54-1						5.57+2
105.3	16.354	26.384	19.00	0.00	0.404	2.08+0	3.59+0	5.42+0	5.39+0	5.92-1	2.57-1						4.27+2
110.2	16.259	26.895	18.86	0.00	0.397	1.51+0	2.77+0	4.28+0	4.29+0	4.41-1	1.85-1						3.33+2
115.2	16.717	25.234	18.18	0.00	0.397	1.89+0	2.14+0	3.41+0	3.46+0	3.24-1	1.32-1						2.62+2
120.2	16.874	24.571	17.56	0.00	0.397	8.12-1	1.78+0	2.76+0	2.81+0	2.32-1	9.77-2						2.89+2
125.1	16.863	23.792	16.96	0.00	0.394	6.11-1	1.36+0	2.26+0	2.30+0	1.79-1	7.45-2						1.69+2
130.0	16.793	23.612	16.84	0.00	0.394	4.67-1	1.89+0	1.86+0	1.90+0	1.38-1							1.37+2
135.0	16.665	23.326	16.65	0.00	0.391	3.46-1	8.81-1	1.53+0	1.57+0	1.01-1							1.11+2
140.0	16.376	23.336	16.72	0.00	0.389	2.67-1	7.20-1	1.28+0	1.30+0	7.79-2							9.19+1
145.0	16.058	23.162	16.65	0.00	0.388	2.81-1	5.95-1	1.07+0	1.09+0	5.27-2							7.62+1
149.9	15.925	22.815	16.42	0.00	0.386	1.69-1	4.93-1	9.89-1	9.38-1								6.31+1
154.9	15.778	22.419	16.14	0.00	0.385	1.28-1	4.16-1	7.89-1	7.94-1								5.38+1
160.0	15.563	22.517	16.26	0.00	0.385	9.54-2	3.46-1	6.62-1	6.77-1								4.52+1
164.9	15.315	22.488	16.29	0.00	0.385		2.91-1	5.65-1	5.76-1								3.71+1
169.8	14.758	22.383	16.32	0.00	0.384		2.58-1	4.88-1	4.98-1								3.18+1
174.8	14.385	22.598	16.56	0.00	0.383		2.10-1	4.21-1	4.16-1								2.71+1
179.7	13.996	22.120	16.26	0.00	0.383		1.72-1	3.58-1	3.53-1								2.28+1
184.8	13.942	21.726	15.97	0.00	0.382		1.49-1	3.86-1	3.82-1								1.96+1
189.8	13.315	21.648	16.02	0.00	0.382		1.23-1	2.56-1	2.51-1								1.63+1

Cast Label : ODEX 3 STA 134 DN CAST 11-8-82 2200Z

Lat. 32.5605N Long. 142.1503W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Fluor V.	Beam Atten	410 nm	441 nm	465 nm	488 nm	520 nm	540 nm	560 nm	589 nm	625 nm	671 nm	694 nm	$\Sigma$ IRR	-W/cm <sup>2</sup> -
0.5	19.462	34.514	24.53	0.00	0.414	2.26+2	2.11+2	2.49+2	2.22+2	2.05+2	2.03+2	1.96+2	1.59+2	1.35+2	1.16+2	9.86+1	5.13+4	
5.2	19.461	34.513	24.53	0.00	0.414	1.86+2	1.78+2	2.12+2	1.90+2	1.57+2	1.50+2	1.33+2	7.66+1	2.66+1	1.11+1	5.51+0	3.23+4	
10.1	19.456	34.514	24.54	0.00	0.414	1.68+2	1.59+2	1.85+2	1.63+2	1.15+2	1.05+2	8.36+1	3.44+1	4.53+0	9.04-1	2.89-1	2.43+4	
15.2	19.458	34.522	24.54	0.00	0.414	1.38+2	1.36+2	1.59+2	1.48+2	8.74+1	7.55+1	5.43+1	1.60+1	7.36-1	8.18-2	3.27-2	1.91+4	
20.1	19.338	34.544	24.59	0.00	0.414	1.23+2	1.19+2	1.38+2	1.21+2	6.52+1	5.43+1	3.57+1	7.90+0	1.82-1	2.31-2	1.57+4		
25.0	19.177	34.528	24.62	0.00	0.416	1.04+2	1.03+2	1.28+2	1.05+2	5.86+1	4.84+1	2.44+1	3.96+0	5.81-2		1.38+4		
30.2	19.231	34.548	24.62	0.00	0.416	8.86+1	9.84+1	1.85+2	9.13+1	3.91+1	2.99+1	1.66+1	2.89+0	2.76-2		1.09+4		
35.1	19.270	34.560	24.62	0.00	0.415	7.63+1	7.91+1	9.16+1	7.93+1	3.01+1	2.21+1	1.89+1	1.13+0			9.22+3		
40.1	19.334	34.590	24.63	0.00	0.416	6.51+1	6.86+1	7.94+1	6.85+1	2.30+1	1.61+1	6.91+0	5.95-1			7.75+3		
45.0	19.349	34.609	24.64	0.00	0.416	5.55+1	5.93+1	6.85+1	5.88+1	1.77+1	1.15+1	4.66+0	3.56-1			6.54+3		
50.0	19.833	34.533	24.66	0.00	0.419	4.57+1	5.02+1	5.83+1	5.84+1	1.37+1	8.24+0	3.15+0	2.12-1			5.45+3		
55.0	18.066	34.498	24.87	0.00	0.421	3.75+1	4.24+1	4.96+1	4.28+1	1.84+1	6.03+0	2.14+0	1.33-1			4.54+3		
60.0	16.563	33.763	24.67	0.00	0.428	2.95+1	3.47+1	4.13+1	3.68+1	7.58+0	4.32+0	1.42+0	8.36-2			3.69+3		
64.8	15.328	33.958	25.09	0.00	0.426	2.26+1	2.78+1	3.38+1	2.98+1	5.78+0	3.21+0	1.88+0	5.66-2			2.97+3		
69.9	14.964	33.768	25.03	0.00	0.424	1.55+1	2.19+1	2.74+1	2.45+1	4.24+0	2.26+0	6.44-1	3.55-2			2.33+3		
74.9	14.824	33.795	25.08	0.00	0.422	1.12+1	1.71+1	2.20+1	2.01+1	3.21+0	1.64+0	4.52-1				1.84+3		
79.8	14.778	33.769	25.08	0.00	0.420	8.03+0	1.32+1	1.75+1	1.63+1	2.40+0	1.18+0	3.08-1				1.44+3		
84.9	14.731	33.759	25.08	0.00	0.420	5.72+0	9.43+0	1.38+1	1.30+1	1.76+0	8.35-1	2.08-1				1.18+3		
89.8	14.525	33.734	25.10	0.00	0.413	4.12+0	7.27+0	1.09+1	1.02+1	1.34+0	6.14-1	1.53-1				8.53+2		
94.8	14.416	33.755	25.14	0.00	0.411	2.98+0	5.43+0	8.16+0	8.03+0	1.01+0	4.47-1	1.03-1				6.45+2		
99.6	14.331	33.765	25.17	0.00	0.409	2.01+0	4.81+0	6.27+0	6.31+0	7.50-1	3.17-1	6.97-2				4.98+2		
104.8	14.239	33.748	25.17	0.00	0.408	1.39+0	2.97+0	4.83+0	4.98+0	5.65-1	2.28-1	5.00-2				3.74+2		
109.7	14.078	33.737	25.28	0.00	0.400	9.94-1	2.24+0	3.78+0	3.96+0	4.22-1	1.71-1					2.89+2		
114.6	13.993	33.751	25.23	0.00	0.395	7.30-1	1.76+0	3.04+0	3.20+0	3.28-1	1.12-1					2.38+2		
119.6	13.978	33.766	25.24	0.00	0.389	5.48-1	1.41+0	2.58+0	2.65+0	2.49-1	8.22-2					1.87+2		
124.6	13.938	33.773	25.26	0.00	0.386	4.23-1	1.15+0	2.89+0	2.22+0	1.91-1						1.53+2		
129.6	14.035	33.813	25.27	0.00	0.386	3.38-1	9.50-1	1.77+0	1.88+0	1.51-1						1.28+2		
134.5	14.280	33.919	25.30	0.00	0.387	2.61-1	7.85-1	1.49+0	1.60+0	1.19-1						1.08+2		
139.4	14.390	33.970	25.31	0.00	0.385	1.95-1	6.45-1	1.27+0	1.36+0	8.98-2						9.04+1		
144.5	14.061	33.978	25.38	0.00	0.383	1.52-1	5.34-1	1.07+0	1.16+0	6.95-2						7.60+1		
149.5	14.849	34.171	25.37	0.00	0.387	1.24-1	4.43-1	9.08-1	9.90-1	5.65-2						6.41+1		
154.5	15.101	34.256	25.38	0.00	0.388	9.38-2	3.61-1	7.57-1	8.38-1	4.89-2						5.35+1		
159.4	15.208	34.336	25.42	0.00	0.391		2.96-1	6.35-1	7.04-1							4.24+1		
164.4	15.071	34.343	25.45	0.00	0.390		2.42-1	5.31-1	5.92-1							3.54+1		
169.4	14.730	34.410	25.58	0.00	0.387		1.94-1	4.40-1	4.99-1							2.94+1		
174.3	13.317	34.254	25.75	0.00	0.385		1.55-1	3.69-1	4.22-1							2.45+1		
179.3	12.956	34.041	25.66	0.00	0.384		1.26-1	3.05-1	3.58-1							2.05+1		
184.2	12.929	34.032	25.66	0.00	0.384		1.09-1	2.67-1	3.06-1							1.77+1		
189.2	12.173	33.975	25.76	0.00	0.383		8.39-2	2.19-1	2.68-1							1.48+1		

Cast Label : ODEX 3 STA 134 UP CAST 11-8-82 22142

Lat. 32.5685N Long. 142.1583W

Z-ave	Temp	Sal.	Dens.	Fluor	Beam	418 nM	441 nM	465 nM	488 nM	520 nM	548 nM	568 nM	589 nM	625 nM	671 nM	694 nM	$\Sigma$ IRR
M	deg C	ppt	&T	V.	Atten												
-8.2	19.448	32.541	23.03	0.00	0.670	2.22+2	2.07+2	2.47+2	2.20+2	2.10+2	2.09+2	2.03+2	1.68+2	1.57+2	1.43+2	1.27+2	5.39+4
4.8	19.475	34.510	24.53	0.00	0.413	2.03+2	1.85+2	2.15+2	1.89+2	1.52+2	1.44+2	1.26+2	7.38+1	2.73+1	1.26+1	5.95+0	3.24+4
9.8	19.355	34.547	24.59	0.00	0.412	1.67+2	1.57+2	1.84+2	1.62+2	1.17+2	1.07+2	8.67+1	3.76+1	5.94+0	1.32+0	4.55-1	2.45+4
14.9	19.305	34.552	24.60	0.00	0.412	1.36+2	1.35+2	1.59+2	1.40+2	9.86+1	7.87+1	5.76+1	1.82+1	9.89-1	1.19-1	4.77-2	1.94+4
19.7	19.123	34.510	24.62	0.00	0.413	1.27+2	1.21+2	1.40+2	1.22+2	6.55+1	5.47+1	3.68+1	7.84+0	1.89-1	2.33-2		1.59+4
24.6	19.214	34.545	24.62	0.00	0.420	1.86+2	1.86+2	1.23+2	1.87+2	5.20+1	4.15+1	2.51+1	4.16+0	5.79-2			1.33+4
29.5	19.249	34.513	24.59	0.00	0.413	9.82+1	9.23+1	1.08+2	9.39+1	4.05+1	3.18+1	1.71+1	2.18+0				1.12+4
34.6	19.353	34.586	24.62	0.00	0.414	8.84+1	8.21+1	9.48+1	8.17+1	3.10+1	2.27+1	1.13+1	1.19+0				9.56+3
39.6	19.341	34.575	24.61	0.00	0.416	6.53+1	6.96+1	8.13+1	7.85+1	2.43+1	1.72+1	7.50+0	6.62-1				7.95+3
44.6	19.056	34.703	24.78	0.00	0.417	5.44+1	5.93+1	6.96+1	6.86+1	1.87+1	1.27+1	5.10+0	3.86-1				6.65+3
49.6	18.156	34.444	24.81	0.00	0.418	4.62+1	5.11+1	5.97+1	5.16+1	1.44+1	8.71+0	3.37+0	2.34-1				5.58+3
54.6	16.589	34.794	25.47	0.00	0.424	3.69+1	4.25+1	5.03+1	4.37+1	1.10+1	6.37+0	2.27+0	1.38-1				4.68+3
59.5	15.188	33.998	25.16	0.00	0.424	2.93+1	3.49+1	4.19+1	3.67+1	7.91+0	4.58+0	1.52+0	9.86-2				3.75+3
64.4	15.001	33.785	25.04	0.00	0.422	2.22+1	2.79+1	3.43+1	3.04+1	5.92+0	3.30+0	1.01+0	5.47-2				3.00+3
69.4	14.854	33.767	25.06	0.00	0.420	1.52+1	2.19+1	2.77+1	2.50+1	4.46+0	2.40+0	6.88-1	3.88-2				2.36+3
74.4	14.786	33.756	25.06	0.00	0.420	1.09+1	1.78+1	2.22+1	2.04+1	3.33+0	1.72+0	4.65-1					1.85+3
79.4	14.708	33.780	25.18	0.00	0.418	7.91+0	1.32+1	1.77+1	1.65+1	2.51+0	1.24+0	3.10-1					1.45+3
84.4	14.542	33.744	25.11	0.00	0.415	5.64+0	9.42+0	1.40+1	1.32+1	1.85+0	8.85-1	2.12-1					1.11+3
89.5	14.489	33.744	25.13	0.00	0.410	4.84+0	7.20+0	1.09+1	1.84+1	1.40+0	6.46-1	1.48-1					8.56+2
94.2	14.378	33.758	25.15	0.00	0.409	2.87+0	5.42+0	8.23+0	8.15+0	1.04+0	4.68-1	9.58-2					6.50+2
99.3	14.258	33.746	25.17	0.00	0.408	1.97+0	3.98+0	6.27+0	6.36+0	7.71-1	3.35-1	6.82-2					4.91+2
104.3	14.116	33.764	25.21	0.00	0.406	1.37+0	2.95+0	4.84+0	5.00+0	5.70-1	2.31-1						3.73+2
109.2	14.038	33.748	25.21	0.00	0.397	9.85-1	2.25+0	3.81+0	3.98+0	4.32-1	1.69-1						2.91+2
114.3	13.979	33.748	25.23	0.00	0.392	7.32-1	1.77+0	3.08+0	3.23+0	3.29-1	1.25-1						2.32+2
119.2	13.981	33.784	25.25	0.00	0.388	5.46-1	1.43+0	2.53+0	2.68+0	2.53-1	9.18-2						1.89+2
124.2	13.971	33.757	25.24	0.00	0.385	4.22-1	1.17+0	2.12+0	2.25+0	1.94-1	7.27-2						1.57+2
129.0	14.181	33.803	25.23	0.00	0.387	3.26-1	9.61-1	1.78+0	1.91+0	1.53-1							1.38+2
134.1	14.470	33.927	25.26	0.00	0.386	2.52-1	7.99-1	1.51+0	1.62+0	1.12-1							1.09+2
139.0	14.174	34.015	25.39	0.00	0.384	1.92-1	6.65-1	1.29+0	1.38+0	9.04-2							9.17+1
143.8	14.165	33.924	25.32	0.00	0.383	1.55-1	5.54-1	1.09+0	1.18+0	6.93-2							7.73+1
149.0	15.112	34.305	25.41	0.00	0.387	1.26-1	4.59-1	9.24-1	1.00+0	5.59-2							6.53+1
154.0	15.244	34.294	25.38	0.00	0.389	1.02-1	3.75-1	7.81-1	8.49-1	4.73-2							5.48+1
158.9	15.154	34.363	25.45	0.00	0.390			3.02-1	6.41-1	7.14-1							4.30+1
163.9	14.896	34.361	25.50	0.00	0.389			2.42-1	5.28-1	6.80-1							3.55+1
168.9	13.442	34.317	25.78	0.00	0.384			1.95-1	4.36-1	5.85-1							2.95+1
173.8	12.956	34.837	25.66	0.00	0.384			1.68-1	3.66-1	4.27-1							2.48+1
178.8	12.964	34.832	25.65	0.00	0.383			1.31-1	3.05-1	3.62-1							2.07+1
183.9	12.439	34.152	25.85	0.00	0.383			1.09-1	2.58-1	3.12-1							1.76+1
188.8	11.910	33.942	25.79	0.00	0.382			8.87-2	2.28-1	2.76-1							1.54+1

Cast Label : ODEX 3 STA 167 DN CAST 11-12-82 23382

Lat. 33.4790N Long. 136.4680W

Z-ave M	Temp deg C	Sal. ppt	Dens. &-T	Fluor V.	Beam Atten	Irradiance uW/cm <sup>2</sup> /nM										-uW/cm <sup>2</sup> - $\Sigma$ IRR	
						410 nM	441 nM	465 nM	488 nM	528 nM	548 nM	568 nM	589 nM	625 nM	671 nM	694 nM	
-0.4	17.676	28.575	20.44	0.00	3.134	#####+1	9.60+1	1.17+2	1.86+2	1.02+2	1.01+2	9.78+1	7.90+1	7.63+1	7.06+1	6.01+1	2.57+4
4.3	17.863	33.692	24.31	0.00	0.421	9.05+1	8.85+1	1.05+2	9.35+1	7.74+1	7.28+1	6.37+1	3.66+1	1.31+1	5.59+0	2.57+0	1.59+4
9.3	17.855	33.726	24.33	0.00	0.423	8.15+1	7.84+1	9.33+1	8.28+1	5.81+1	5.25+1	4.11+1	1.59+1	1.95+0	3.67-1	1.15-1	1.21+4
14.2	17.835	33.733	24.34	0.00	0.428	6.85+1	6.88+1	8.24+1	7.33+1	4.59+1	3.95+1	2.82+1	8.08+0	3.67-1	3.81-2		9.86+3
19.2	17.824	33.715	24.33	0.00	0.420	6.28+1	6.24+1	7.39+1	6.48+1	3.49+1	2.86+1	1.83+1	3.63+0	6.87-2			8.25+3
24.2	17.815	33.726	24.34	0.00	0.428	5.36+1	5.49+1	6.54+1	5.75+1	2.72+1	2.14+1	1.23+1	1.85+0				6.96+3
29.2	17.814	33.728	24.34	0.00	0.421	4.42+1	4.75+1	5.74+1	5.08+1	2.17+1	1.64+1	8.43+0	1.01+0				5.87+3
34.2	17.838	33.748	24.36	0.00	0.428	4.05+1	4.31+1	5.12+1	4.46+1	1.65+1	1.14+1	5.24+0	5.28-1				5.04+3
39.1	17.897	33.761	24.35	0.00	0.421	3.43+1	3.70+1	4.41+1	3.85+1	1.27+1	8.09+0	3.49+0	3.82-1				4.24+3
44.1	17.987	33.845	24.39	0.00	0.419	2.88+1	3.11+1	3.73+1	3.27+1	9.59+0	6.03+0	2.41+0	1.81-1				3.50+3
49.1	18.008	33.755	24.32	0.00	0.426	2.30+1	2.59+1	3.12+1	2.74+1	6.87+0	4.19+0	1.52+0	1.10-1				2.86+3
54.0	16.336	33.707	24.68	0.00	0.428	1.67+1	2.09+1	2.55+1	2.26+1	5.11+0	2.98+0	1.01+0	7.30-2				2.27+3
59.0	15.537	33.429	24.65	0.00	0.430	1.22+1	1.63+1	2.05+1	1.84+1	3.77+0	2.12+0	6.67-1	4.90-2				1.78+3
63.9	15.899	33.352	24.68	0.00	0.427	8.77+0	1.25+1	1.60+1	1.46+1	2.70+0	1.46+0	4.24-1	3.28-2				1.37+3
68.9	14.766	33.430	24.81	0.00	0.424	6.15+0	8.79+0	1.25+1	1.14+1	1.98+0	1.03+0	2.78-1					1.82+3
73.9	14.588	33.378	24.81	0.00	0.422	4.43+0	6.66+0	9.27+0	8.81+0	1.47+0	7.39-1	1.86-1					7.69+2
78.9	14.482	33.355	24.83	0.00	0.422	3.02+0	4.98+0	7.09+0	6.84+0	1.06+0	5.28-1	1.20-1					5.77+2
83.9	14.358	33.371	24.86	0.00	0.420	2.11+0	3.62+0	5.42+0	5.34+0	7.84-1	3.62-1	8.47-2					4.36+2
88.8	14.345	33.368	24.86	0.00	0.418	1.46+0	2.68+0	4.15+0	4.18+0	5.58-1	2.60-1	4.95-2					3.30+2
93.8	14.328	33.378	24.87	0.00	0.417	1.02+0	1.99+0	3.18+0	3.27+0	4.14-1	1.81-1						2.50+2
98.8	14.256	33.378	24.88	0.00	0.416	7.08-1	1.47+0	2.44+0	2.55+0	3.01-1	1.22-1						1.89+2
103.7	14.284	33.458	24.95	0.00	0.408	4.84-1	1.08+0	1.87+0	1.98+0	2.24-1	9.23-2						1.44+2
108.8	14.196	33.473	24.97	0.00	0.405	3.33-1	8.13-1	1.46+0	1.55+0	1.57-1	6.82-2						1.10+2
113.7	14.212	33.528	25.00	0.00	0.404	2.45-1	6.18-1	1.13+0	1.22+0	1.15-1							8.40+1
118.5	14.198	33.493	24.98	0.00	0.401	1.71-1	4.69-1	9.02-1	9.70-1	8.44-2							6.56+1
123.5	14.134	33.522	25.02	0.00	0.397	1.21-1	3.61-1	7.18-1	7.73-1	6.10-2							5.13+1
128.6	14.162	33.577	25.06	0.00	0.397	8.20-2	2.81-1	5.70-1	6.21-1	4.09-2							4.05+1
133.5	14.042	33.594	25.09	0.00	0.397		2.23-1	4.57-1	5.82-1								3.07+1
138.4	13.983	33.600	25.11	0.00	0.394		1.73-1	3.71-1	4.09-1								2.47+1
143.4	13.919	33.627	25.15	0.00	0.390		1.39-1	3.08-1	3.36-1								2.03+1
148.5	13.751	33.561	25.13	0.00	0.384		1.23-1	2.66-1	2.80-1								1.73+1
153.6	13.699	33.576	25.15	0.00	0.383		9.76-2	2.23-1	2.37-1								1.45+1
158.6	13.672	33.626	25.20	0.00	0.383		8.44-2	1.99-1	2.03-1								1.26+1
163.4	13.474	33.533	25.16	0.00	0.382		6.67-2	1.69-1	1.73-1								1.06+1
168.3	13.160	33.554	25.24	0.00	0.382		5.92-2	1.53-1	1.48-1								9.29+0
173.4	13.015	33.610	25.32	0.00	0.382		5.13-2	1.24-1	1.25-1								7.77+0
178.4	12.851	33.604	25.34	0.00	0.383			1.07-1	1.05-1								5.41+0
183.3	12.756	33.605	25.36	0.00	0.382			8.93-2	8.67-2								4.48+0
188.4	13.034	33.716	25.39	0.00	0.383			8.31-2	7.06-2								3.89+0

Cast Label : ODEX 3 STA 170 DN CAST 11-15-82 1926Z

Lat. 34.4828N Long. 127.1375W

Z-ave	Temp	Sal.	Dens.	Fluor	Beam	410 nm	441 nm	465 nm	488 nm	528 nm	540 nm	560 nm	589 nm	625 nm	671 nm	694 nm	$\Sigma$ IRR	
M	deg C	ppt	&T	V.	Atten													
1.0	16.999	33.181	24.12	0.00	0.429	1.67+2	1.57+2	1.88+2	1.69+2	1.54+2	1.53+2	1.46+2	1.11+2	8.72+1	6.84+1	5.30+1	3.68+4	
5.9	16.979	33.184	24.13	0.00	0.430	1.39+2	1.34+2	1.61+2	1.45+2	1.16+2	1.10+2	9.42+1	4.97+1	1.47+1	5.16+0	2.17+0	2.35+4	
10.7	16.977	33.182	24.13	0.00	0.430	1.10+2	1.11+2	1.37+2	1.25+2	9.85+1	8.27+1	6.52+1	2.52+1	2.85+0	4.86-1	1.48-1	1.00+4	
15.7	16.976	33.183	24.13	0.00	0.430	9.23+1	9.57+1	1.19+2	1.08+2	6.88+1	6.00+1	4.28+1	1.22+1	5.42-1	5.99-2	2.78-2	1.43+4	
20.8	16.974	33.181	24.13	0.00	0.430	7.66+1	8.20+1	1.82+2	9.28+1	5.22+1	4.33+1	2.88+1	5.68+0	1.15-1			1.15+4	
25.7	16.977	33.183	24.13	0.00	0.430	5.99+1	6.69+1	8.56+1	7.72+1	4.81+1	3.24+1	1.93+1	2.94+0	3.12-2			9.22+3	
30.7	16.980	33.184	24.13	0.00	0.430	4.91+1	5.63+1	7.24+1	6.71+1	3.83+1	2.34+1	1.24+1	1.52+0				7.46+3	
35.7	16.988	33.186	24.13	0.00	0.434	3.88+1	4.63+1	6.85+1	5.65+1	2.31+1	1.73+1	8.12+0	8.35-1				6.02+3	
40.6	16.990	33.222	24.15	0.00	0.434	3.88+1	3.78+1	5.00+1	4.70+1	1.72+1	1.19+1	5.20+0	4.44-1				4.81+3	
45.6	17.841	33.223	24.14	0.00	0.433	2.36+1	2.99+1	4.03+1	3.84+1	1.28+1	8.19+0	3.36+0	2.55-1				3.78+3	
50.6	16.417	33.170	24.25	0.00	0.450	1.62+1	2.28+1	3.15+1	3.85+1	9.00+0	5.75+0	2.18+0	1.48-1				2.87+3	
55.6	15.428	33.389	24.64	0.00	0.464	1.86+1	1.63+1	2.37+1	2.36+1	6.39+0	4.82+0	1.43+0	9.26-2				2.18+3	
60.4	14.565	33.158	24.65	0.00	0.453	6.44+0	1.07+1	1.71+1	1.77+1	4.52+0	2.77+0	9.26-1	6.23-2				1.48+3	
65.5	14.148	33.163	24.74	0.00	0.454	3.75+0	6.79+0	1.20+1	1.38+1	3.89+0	1.83+0	5.76-1	4.07-2				1.02+3	
70.4	14.077	33.183	24.77	0.00	0.445	2.33+0	4.62+0	8.14+0	9.43+0	2.22+0	1.29+0	3.82-1					7.06+2	
75.4	13.218	32.985	24.79	0.00	0.452	1.42+0	3.13+0	5.86+0	6.83+0	1.61+0	9.16-1	2.55-1					5.00+2	
80.4	12.526	33.061	24.99	0.00	0.434	8.39-1	2.07+0	4.15+0	4.98+0	1.14+0	6.23-1	1.72-1					3.51+2	
85.4	12.325	32.999	24.98	0.00	0.431	4.79-1	1.38+0	2.98+0	3.69+0	8.01-1	4.18-1	1.13-1					2.49+2	
90.3	12.331	32.989	24.97	0.00	0.421	2.87-1	9.51-1	2.20+0	2.79+0	5.75-1	2.88-1	7.32-2					1.82+2	
95.4	12.267	33.073	25.05	0.00	0.410	1.75-1	6.78-1	1.66+0	2.16+0	4.13-1	2.81-1						1.35+2	
100.3	11.923	33.034	25.08	0.00	0.405	1.09-1	4.98-1	1.29+0	1.70+0	2.97-1	1.38-1						1.03+2	
105.2	11.638	33.130	25.21	0.00	0.402					3.72-1	1.01+0	1.36+0	2.23-1	9.49-2				7.92+1
110.3	11.691	33.088	25.16	0.00	0.397					2.84-1	8.05-1	1.10+0	1.73-1	7.23-2				6.29+1
115.3	11.575	33.088	25.19	0.00	0.397					2.17-1	6.46-1	8.91-1	1.26-1	5.52-2				5.00+1
120.2	11.115	33.079	25.26	0.00	0.397					1.67-1	5.21-1	7.28-1	9.38-2					3.93+1
125.1	11.091	33.083	25.27	0.00	0.395					1.26-1	4.19-1	5.96-1	7.51-2					3.17+1
130.1	10.893	33.132	25.34	0.00	0.394					9.68-2	3.47-1	4.90-1	5.19-2					2.56+1
134.9	10.615	33.202	25.45	0.00	0.394					7.20-2	2.77-1	4.82-1						1.95+1
140.1	10.499	33.236	25.49	0.00	0.393					5.55-2	2.26-1	3.28-1						1.59+1
145.0	10.325	33.325	25.59	0.00	0.391						1.87-1	2.68-1						1.18+1
150.1	10.193	33.443	25.71	0.00	0.391						1.53-1	2.19-1						9.62+0
154.9	10.113	33.503	25.77	0.00	0.391						1.22-1	1.79-1						7.78+0
160.0	10.077	33.507	25.78	0.00	0.391						9.67-2	1.46-1						6.28+0
164.9	9.969	33.581	25.85	0.00	0.391						8.55-2	1.18-1						5.25+0
169.8	10.305	33.258	25.54	0.00	0.391						6.33-2	9.57-2						4.12+0
174.8	9.784	33.681	25.96	0.00	0.392						4.98-2	7.68-2						3.28+f
179.8	9.639	33.737	26.03	0.00	0.392						4.26-2	5.88-2						2.62+f
184.8	9.536	33.743	26.05	0.00	0.392							4.19-2						1.15+f
189.8	9.391	33.775	26.10	0.00	0.390													

Cast Label : ODEX 3 STA 170 UP CAST 11-15-82 1935Z

Lat. 34.482N Long. 127.1375W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Fluor V.	Beam Atten	410 nM	441 nM	465 nM	488 nM	528 nM	548 nM	568 nM	589 nM	625 nM	671 nM	694 nM	$\Sigma$ IRR	-W/cm <sup>2</sup> -
-8.1	17.017	31.671	22.96	0.00	0.525	1.96+2	1.87+2	2.20+2	1.93+2	1.87+2	1.82+2	1.76+2	1.46+2	1.38+2	1.26+2	1.08+2	4.75+4	
4.8	17.003	33.182	24.12	0.00	0.426	1.52+2	1.48+2	1.80+2	1.62+2	1.36+2	1.31+2	1.16+2	6.68+1	2.58+1	1.06+1	5.35+0	2.77+4	
9.7	16.974	33.185	24.13	0.00	0.428	1.38+2	1.25+2	1.52+2	1.37+2	9.94+1	9.18+1	7.30+1	3.06+1	4.64+0	9.81-1	3.32-1	2.02+4	
14.8	16.971	33.183	24.13	0.00	0.429	1.02+2	1.04+2	1.28+2	1.16+2	7.61+1	6.65+1	4.85+1	1.51+1	8.66-1	1.01-1	4.56-2	1.57+4	
19.7	16.967	33.184	24.13	0.00	0.428	8.19+1	8.64+1	1.08+2	9.86+1	5.77+1	4.87+1	3.26+1	7.54+0	1.83-1	2.34-2		1.24+4	
24.6	16.968	33.179	24.13	0.00	0.428	6.63+1	7.26+1	9.19+1	8.40+1	4.33+1	3.47+1	2.18+1	3.41+0	3.93-2			9.94+3	
29.6	16.971	33.177	24.13	0.00	0.428	5.38+1	6.00+1	7.72+1	7.11+1	3.31+1	2.57+1	1.44+1	1.82+0				8.03+3	
34.7	16.973	33.167	24.12	0.00	0.428	4.26+1	4.98+1	6.46+1	5.99+1	2.49+1	1.86+1	8.85+0	9.37-1				6.46+3	
39.8	16.976	33.159	24.11	0.00	0.427	3.38+1	4.08+1	5.36+1	4.99+1	1.86+1	1.29+1	5.71+0	5.00-1				5.18+3	
44.6	16.988	33.165	24.11	0.00	0.427	2.65+1	3.29+1	4.38+1	4.10+1	1.41+1	9.13+0	3.85+0	2.93-1				4.13+3	
49.6	16.424	33.544	24.53	0.00	0.437	2.00+1	2.56+1	3.47+1	3.30+1	1.03+1	6.48+0	2.48+0	1.69-1				3.28+3	
54.7	14.862	33.353	24.73	0.00	0.464	1.24+1	1.85+1	2.62+1	2.57+1	7.18+0	4.47+0	1.61+0	1.00-1				2.34+3	
59.4	14.335	33.214	24.74	0.00	0.452	7.59+0	1.27+1	1.91+1	1.94+1	5.06+0	3.11+0	1.04+0	5.76-2				1.67+3	
64.4	14.247	33.813	24.68	0.00	0.447	4.46+0	7.82+0	1.34+1	1.42+1	3.52+0	2.11+0	6.63-1	3.51-2				1.14+3	
69.5	13.369	33.127	24.87	0.00	0.444	2.65+0	5.18+0	8.96+0	1.02+1	2.46+0	1.43+0	4.19-1					7.78+2	
74.4	12.938	33.813	24.87	0.00	0.444	1.59+0	3.48+0	6.39+0	7.29+0	1.77+0	1.01+0	2.75-1					5.44+2	
79.3	12.389	32.959	24.93	0.00	0.432	9.15-1	2.27+0	4.46+0	5.28+0	1.22+0	6.76-1	1.63-1					3.76+2	
84.4	12.334	32.945	24.93	0.00	0.425	5.28-1	1.51+0	3.20+0	3.91+0	8.57-1	4.61-1	####-2					2.66+2	
89.3	12.483	32.987	24.95	0.00	0.414	3.31-1	1.07+0	2.39+0	2.97+0	6.17-1	3.22-1	6.48-2					1.97+2	
94.2	12.099	33.097	25.18	0.00	0.408	2.04-1	7.68-1	1.81+0	2.31+0	4.49-1	2.27-1						1.47+2	
99.3	11.802	33.850	25.11	0.00	0.403	1.25-1	5.67-1	1.48+0	1.83+0	3.27-1	1.59-1						1.12+2	
104.2	11.637	33.818	25.12	0.00	0.399	8.43-2	4.27-1	1.10+0	1.46+0	2.41-1	1.16-1						8.77+1	
109.3	11.701	33.120	25.19	0.00	0.397					3.23-1	8.71-1	1.17+0	1.79-1	8.13-2			6.88+1	
114.1	11.578	33.185	25.20	0.00	0.397					2.51-1	6.99-1	9.53-1	1.33-1	6.20-2			5.42+1	
119.0	11.133	33.868	25.25	0.00	0.397					1.98-1	5.69-1	7.78-1	9.87-2				4.28+1	
124.2	11.232	33.138	25.29	0.00	0.394					1.56-1	4.59-1	6.38-1	7.70-2				3.46+1	
129.1	18.941	33.894	25.31	0.00	0.392					1.22-1	3.79-1	5.24-1	5.23-2				2.88+1	
134.2	18.682	33.283	25.45	0.00	0.393					9.78-2	3.04-1	4.29-1	4.27-2				2.28+1	
139.0	18.526	33.294	25.46	0.00	0.393					7.83-2	2.48-1	3.50-1					1.76+1	
143.8	18.400	33.293	25.55	0.00	0.391					6.00-2	1.99-1	2.84-1					1.41+1	
149.0	18.212	33.397	25.67	0.00	0.390					4.52-2	1.59-1	2.29-1					1.13+1	
154.1	18.120	33.478	25.74	0.00	0.391						1.27-1	1.85-1					8.07+0	
158.9	18.056	33.513	25.78	0.00	0.392						1.86-1	1.49-1					6.60+0	
163.8	9.978	33.558	25.83	0.00	0.392						8.52-2	1.21-1					5.32+0	
168.9	9.894	33.620	25.90	0.00	0.392						7.43-2	9.74-2					4.42+0	
173.9	9.767	33.678	25.96	0.00	0.391						5.45-2	7.78-2					3.42+0	
178.8	9.605	33.738	26.04	0.00	0.392							5.99-2					1.65+0	
183.7	9.511	33.758	26.06	0.00	0.391							4.54-2					1.25+0	
188.8	9.357	33.786	26.11	0.00	0.392													

Cast Label : ODEX 3 STA 176 UP CAST 11-16-82 23282

Lat. 34.5865N Long. 123.3559W

Z-ave M	Temp deg C	Sal. ppt	Dens. &-T	Fluor V.	Beam Atten	410 nM	441 nM	465 nM	488 nM	520 nM	540 nM	560 nM	589 nM	625 nM	671 nM	694 nM	$\Sigma$ IRR
1.6	14.897	33.085	24.52	0.00	0.557	9.85+1	8.27+1	9.44+1	8.07+1	6.47+1	5.92+1	5.81+1	3.85+1	1.84+1	1.14+1	7.68+0	1.46+4
6.2	14.896	33.096	24.53	0.00	0.555	3.83+1	4.05+1	5.42+1	5.25+1	4.55+1	4.34+1	3.69+1	1.77+1	4.11+0	1.26+0	5.04+1	8.18+3
11.1	14.859	33.101	24.54	0.00	0.556	2.06+1	2.41+1	3.44+1	3.47+1	2.88+1	2.62+1	2.83+1	6.74+0	5.39+1	8.19+2	3.65+2	4.74+3
16.3	14.820	33.108	24.55	0.00	0.566	1.85+1	1.43+1	2.17+1	2.29+1	1.73+1	1.57+1	1.07+1	2.51+0	6.38+2			2.81+3
21.1	14.749	33.154	24.61	0.00	0.582	5.39+0	7.65+0	1.33+1	1.46+1	1.06+1	8.88+0	5.72+0	1.06+0				1.63+3
26.2	14.673	33.198	24.66	0.00	0.658	2.75+0	4.28+0	7.59+0	8.78+0	6.29+0	5.43+0	3.38+0	4.87+1				9.49+2
31.2	14.892	33.283	24.67	0.00	0.649	1.29+0	2.17+0	4.20+0	5.15+0	3.71+0	3.21+0	1.84+0	2.18+1				5.33+2
36.1	14.188	33.407	24.92	0.00	0.559	6.09+1	1.13+0	2.39+0	3.10+0	2.23+0	1.92+0	1.85+0	1.04+1				3.87+2
41.1	13.216	33.096	24.88	0.00	0.470	3.18+1	6.50+1	1.48+0	2.80+0	1.38+0	1.17+0	5.89+1	4.59+2				1.87+2
46.1	13.328	33.110	24.87	0.00	0.457	1.75+1	4.16+1	1.08+0	1.38+0	8.92+1	7.30+1	3.34+1					1.22+2
51.0	11.790	33.040	25.11	0.00	0.431	1.02+1	2.76+1	7.86+1	1.00+0	6.01+1	4.90+1	1.99+1					8.37+1
56.1	11.719	33.061	25.14	0.00	0.421		1.94+1	5.27+1	7.56+1	4.17+1	3.31+1	1.19+1					5.89+1
61.0	11.351	33.037	25.19	0.00	0.413		1.48+1	3.99+1	5.85+1	2.95+1	2.33+1	7.16+2					4.34+1
65.9	11.032	33.045	25.25	0.00	0.409		1.08+1	3.18+1	4.65+1	2.13+1	1.58+1						3.19+1
70.9	10.806	33.041	25.29	0.00	0.404		8.37+2	2.57+1	3.77+1	1.54+1	1.86+1						2.48+1
75.9	10.763	33.056	25.31	0.00	0.403		6.75+2	2.04+1	3.08+1	1.12+1	8.03+2						1.97+1
80.8	10.747	33.056	25.31	0.00	0.400		5.93+2	1.74+1	2.53+1	8.09+2	6.89+2						1.62+1
85.8	10.428	33.105	25.48	0.00	0.397		1.46+1	2.87+1	5.22+2								1.05+1
90.8	10.290	33.115	25.43	0.00	0.397			1.13+1	1.68+1								7.28+0
95.9	10.293	33.153	25.46	0.00	0.395			9.29+2	1.34+1								5.87+0
100.7	10.471	33.468	25.68	0.00	0.397			7.39+2	1.04+1								4.59+0
105.8	9.936	33.749	25.99	0.00	0.397			6.08+2	7.77+2								3.56+0
110.8	9.615	33.454	25.81	0.00	0.395			4.18+2	5.06+2								2.37+0
115.7	9.381	33.457	25.85	0.00	0.392			3.00+2									7.06+1
120.8	9.652	33.548	25.88	0.00	0.394												
125.5	9.689	33.648	25.95	0.00	0.395												
130.6	9.399	33.737	26.07	0.00	0.395												
135.6	9.308	33.736	26.08	0.00	0.393												

PREMATURE END OF DATA FILE

Cast Label : ODEX 3 STA 182 UP CAST 11-17-82 20262

Lat. 35.5353N Long. 121.3916W

Z-ave	Temp	Sal.	Dens.	Fluor	Beam	410 nM	441 nM	465 nM	488 nM	520 nM	540 nM	560 nM	589 nM	625 nM	671 nM	694 nM	$\Sigma$ IRR	-UW/cm2-
M	deg C	ppt	&T	V.	Atten													
-0.4	15.898	28.138	28.50	0.00	0.741	7.68+1	6.76+1	7.88+1	6.90+1	6.45+1	6.37+1	6.10+1	4.81+1	4.61+1	4.14+1	3.49+1	1.65+4	
4.3	15.816	33.383	24.55	0.00	0.549	4.78+1	4.60+1	5.77+1	5.32+1	4.78+1	4.67+1	4.19+1	2.47+1	1.03+1	4.54+0	2.48+0	9.44+3	
9.3	15.758	33.379	24.56	0.00	0.557	2.97+1	3.07+1	4.16+1	4.02+1	3.46+1	3.32+1	2.79+1	1.23+1	2.02+0	4.71-1	1.80-1	6.14+3	
14.2	15.745	33.372	24.56	0.00	0.556	1.69+1	2.01+1	2.94+1	2.97+1	2.46+1	2.34+1	1.84+1	6.11+0	4.32-1	6.67-2	3.22-2	4.18+3	
19.3	15.733	33.373	24.56	0.00	0.551	9.61+0	1.28+1	2.01+1	2.13+1	1.70+1	1.68+1	1.13+1	2.82+0	7.83-2			2.69+3	
24.2	15.725	33.371	24.56	0.00	0.539	5.25+0	7.23+0	1.33+1	1.48+1	1.14+1	1.08+1	6.73+0	1.33+0				1.71+3	
29.2	15.721	33.378	24.56	0.00	0.534	2.98+0	4.44+0	8.37+0	1.01+1	7.22+0	6.49+0	4.18+0	6.68-1				1.88+3	
34.2	15.714	33.367	24.56	0.00	0.538	1.67+0	2.74+0	5.59+0	6.87+0	4.85+0	4.28+0	2.58+0	3.32-1				7.07+2	
39.1	15.708	33.353	24.55	0.00	0.525	9.28-1	1.65+0	3.64+0	4.67+0	3.16+0	2.76+0	1.55+0	1.59-1				4.54+2	
44.1	15.248	33.398	24.68	0.00	0.507	5.05-1	9.99-1	2.37+0	3.17+0	2.06+0	1.77+0	9.37-1	7.59-2				2.92+2	
49.1	14.668	33.324	24.75	0.00	0.489	2.70-1	6.04-1	1.55+0	2.15+0	1.36+0	1.15+0	5.71-1	3.61-2				1.90+2	
54.0	14.523	33.312	24.78	0.00	0.479	1.39-1	3.72-1	1.82+0	1.47+0	9.81-1	7.55-1	3.48-1					1.24+2	
59.1	13.882	33.338	24.92	0.00	0.437			2.41-1	6.88-1	1.03+0	5.98-1	4.98-1	2.05-1				8.16+1	
63.9	13.647	33.294	24.94	0.00	0.442			1.55-1	4.78-1	7.31-1	4.88-1	3.35-1	1.23-1				5.59+1	
68.9	13.172	33.421	25.14	0.00	0.432			1.03-1	3.35-1	5.26-1	2.78-1	2.28-1	7.59-2				3.88+1	
73.8	12.818	33.335	25.14	0.00	0.425			7.08-2	2.39-1	3.83-1	1.87-1	1.53-1					2.68+1	
78.8	12.574	33.405	25.24	0.00	0.422			5.21-2	1.75-1	2.81-1	1.34-1	1.09-1					1.89+1	
83.8	12.268	33.418	25.31	0.00	0.414					1.31-1	2.18-1	8.84-2	6.83-2					1.25+1
88.8	12.198	33.424	25.33	0.00	0.414					1.01-1	1.57-1	6.38-2						8.35+0
93.7	12.044	33.429	25.36	0.00	0.413					7.19-2	1.17-1	4.11-2						5.99+0
98.8	11.924	33.467	25.42	0.00	0.409					5.64-2	8.69-2							3.71+0
103.8	11.670	33.514	25.50	0.00	0.408						5.98-2							1.64+0
108.7	11.579	33.515	25.52	0.00	0.410													
113.8	11.481	33.561	25.57	0.00	0.416													
118.6	11.439	33.568	25.58	0.00	0.417													
123.7	11.348	33.523	25.57	0.00	0.415													
128.5	11.062	33.592	25.67	0.00	0.407													
127.9	11.040	33.594	25.68	0.00	0.406													

PREMATURE END OF DATA FILE

Cast Label : ODEX 3 STA 184 DN CAST 11-17-82 23392

Lat. 35.5320N Long. 121.3110W

Z-ave M	Temp deg C	Sal. ppt	Dens. &-T	Fluor V.	Beam Atten	410 nm	441 nm	465 nm	488 nm	520 nm	540 nm	560 nm	589 nm	625 nm	671 nm	694 nm	$\Sigma$ IRR	-UW/cm2- -UW/cm2-
0.0	15.788	33.367	24.54	0.00	0.547	2.02+1	1.88+1	2.25+1	2.02+1	1.89+1	1.86+1	1.76+1	1.37+1	1.27+1	1.19+1	1.02+1	4.70+3	
4.8	15.779	33.369	24.55	0.00	0.547	1.21+1	1.30+1	1.66+1	1.55+1	1.39+1	1.32+1	1.15+1	6.51+0	2.41+0	1.05+0	5.55-1	2.62+3	
9.7	15.683	33.376	24.57	0.00	0.555	7.15+0	7.98+0	1.17+1	1.12+1	9.55+0	8.69+0	7.17+0	3.07+0	4.77-1	9.98-2	4.54-2	1.63+3	
14.9	15.590	33.375	24.59	0.00	0.558	4.05+0	4.93+0	7.53+0	7.74+0	6.42+0	5.91+0	4.58+0	1.47+0	7.62-2			1.84+3	
19.7	15.498	33.385	24.62	0.00	0.571	2.14+0	2.89+0	4.82+0	5.28+0	4.17+0	3.76+0	2.74+0	6.85-1				6.42+2	
24.7	15.350	33.363	24.64	0.00	0.576	1.08+0	1.64+0	3.01+0	3.42+0	2.66+0	2.35+0	1.63+0	3.27-1				3.93+2	
29.7	15.304	33.359	24.64	0.00	0.586	5.23-1	9.27-1	1.86+0	2.22+0	1.67+0	1.45+0	9.52-1	1.54-1				2.39+2	
34.6	15.045	33.372	24.71	0.00	0.576	2.34-1	5.12-1	1.13+0	1.42+0	1.02+0	8.57-1	5.41-1	7.19-2				1.43+2	
39.5	14.976	33.357	24.71	0.00	0.576	1.01-1	2.91-1	6.96-1	9.03-1	6.31-1	5.15-1	3.03-1	3.41-2				8.68+1	
44.6	14.788	33.355	24.76	0.00	0.561		1.69-1	4.34-1	5.75-1	3.86-1	3.07-1	1.69-1					5.09+1	
49.6	14.493	33.356	24.82	0.00	0.559		9.90-2	2.66-1	3.65-1	2.31-1	1.53-1	9.26-2					3.03+1	
54.6	14.298	33.369	24.87	0.00	0.561		6.21-2	1.68-1	2.31-1	1.37-1	8.15-2						1.72+1	
59.4	14.119	33.341	24.88	0.00	0.551			1.12-1	1.47-1	8.54-2							8.88+0	
64.4	13.339	33.395	25.09	0.00	0.558			7.32-2	8.74-2	4.58-2							5.32+0	
69.5	13.155	33.366	25.18	0.00	0.539				4.13-2	4.61-2							2.24+0	
74.4	12.864	33.441	25.21	0.00	0.538													
79.4	12.819	33.399	25.19	0.00	0.519													
84.3	12.735	33.415	25.22	0.00	0.514													
89.2	12.626	33.447	25.27	0.00	0.523													
94.3	12.555	33.446	25.28	0.00	0.532													
99.3	12.499	33.458	25.29	0.00	0.531													

PREMATURE END OF DATA FILE

Cast Label : ODEX 3 STA 184 UP CAST 11-17-82 2352Z

Lat. 35.5320N Long. 121.3110W

Z-ave M	Temp deg C	Sal. ppt	Dens. &-T	Fluor V.	Beam Atten	410 nM	441 nM	465 nM	488 nM	520 nM	540 nM	560 nM	589 nM	625 nM	671 nM	694 nM	$\Sigma$ IRR -W/cm <sup>2</sup> -
-0.4	-99.800	-999.800	-999.80	0.00	4.991	5.98+0	5.47+0	6.26+0	5.34+0	4.84+0	4.53+0	4.18+0	3.24+0	3.13+0	3.00+0	2.48+0	1.22+3
4.3	15.768	33.355	24.54	0.00	0.547	3.74+0	3.56+0	4.44+0	3.97+0	3.44+0	3.22+0	2.77+0	1.56+0	6.24-1	2.94-1	1.62-1	6.79+2
9.2	15.679	33.357	24.56	0.00	0.554	2.25+0	2.34+0	3.16+0	2.95+0	2.45+0	2.25+0	1.88+0	7.45-1	1.06-1			4.38+2
14.1	15.569	33.343	24.57	0.00	0.551	1.30+0	1.48+0	2.18+0	2.14+0	1.71+0	1.54+0	1.15+0	3.60-1				2.86+2
19.2	15.358	33.345	24.62	0.00	0.575	7.23-1	9.01-1	1.45+0	1.49+0	1.16+0	1.02+0	7.15-1	1.74-1				1.85+2
24.2	15.275	33.373	24.66	0.00	0.577	3.70-1	5.24-1	9.37-1	1.01+0	7.51-1	6.58-1	4.30-1	8.19-2				1.16+2
29.2	15.048	33.355	24.70	0.00	0.576	1.92-1	3.06-1	5.96-1	6.70-1	4.80-1	4.20-1	2.55-1	3.97-2				7.22+1
34.2	14.986	33.337	24.70	0.00	0.575	9.75-2	1.78-1	3.81-1	4.41-1	3.88-1	2.63-1	1.43-1				4.41+1	
39.1	14.663	33.266	24.71	0.00	0.562				1.09-1	2.46-1	2.89-1	1.85-1	1.78-1	7.67-2			2.68+1
44.1	14.479	33.324	24.79	0.00	0.559				6.83-2	1.60-1	1.89-1	1.15-1	1.06-1				1.59+1
49.1	14.204	33.344	24.87	0.00	0.556				4.68-2	1.09-1	1.22-1	6.80-2	6.50-2				1.02+1
54.0	13.965	33.349	24.92	0.00	0.534					8.30-2	7.97-2	4.25-2					5.25+0
58.9	13.778	33.253	24.89	0.00	0.541					3.97-2	3.77-2						1.97+0
64.1	13.215	33.317	25.05	0.00	0.539						1.50-1						3.52+0
68.8	13.026	33.371	25.13	0.00	0.545												
73.9	12.840	33.393	25.18	0.00	0.534												
78.9	12.796	33.398	25.19	0.00	0.517												
83.8	12.722	33.402	25.21	0.00	0.515												
88.9	12.593	33.426	25.26	0.00	0.526												
93.8	12.544	33.439	25.28	0.00	0.536												
98.8	12.494	33.445	25.29	0.00	0.533												

PREMATURE END OF DATA FILE

Cast Label : ODEX 3 STA 7 DN CAST

Lat. 35.1940N Long. 121.3000W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Fluor V.	Beam Atten	410 nM	441 nM	465 nM	488 nM	520 nM	540 nM	560 nM	589 nM	625 nM	671 nM	% of surface Irradiance
0.0	15.300	33.385	24.66	0.00	0.586	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
4.9	15.214	33.382	24.68	0.00	0.611	53.90	61.61	67.49	71.14	68.38	67.12	62.90	46.76	19.78	9.78	
9.7	15.197	33.371	24.68	0.00	0.619	27.22	35.21	42.76	48.20	44.30	43.86	37.83	20.81	3.43	0.83	
14.7	14.994	33.432	24.77	0.00	0.695	11.87	18.73	25.22	30.62	27.78	26.97	22.54	9.38	0.61		
19.7	14.713	33.421	24.82	0.00	0.683	5.00	8.45	13.77	18.17	16.78	16.49	12.97	4.15			
24.6	14.408	33.353	24.83	0.00	0.637	2.89	3.97	7.04	10.47	9.72	9.19	7.17	1.86			
29.6	13.651	33.344	24.98	0.00	0.539	0.93	2.03	4.82	6.25	5.69	5.51	4.13	0.89			
34.7	13.247	33.420	25.12	0.00	0.496		1.10	2.44	3.99	3.46	3.28	2.31	0.40			
39.6	12.646	33.430	25.25	0.00	0.452			0.66	1.61	2.73	2.23	2.07	1.35			
44.6	12.479	33.463	25.31	0.00	0.448			0.42	1.11	1.95	1.48	1.35	0.79			
49.6	12.186	33.482	25.38	0.00	0.441				0.78	1.43	1.02	0.89	0.48			
54.6	11.885	33.514	25.46	0.00	0.432				0.56	1.06	0.70	0.62				
59.4	11.765	33.504	25.47	0.00	0.421				0.42	0.88	0.50					
64.4	11.446	33.545	25.57	0.00	0.418					0.68						
69.4	11.247	33.588	25.63	0.00	0.409					0.46						
74.4	10.834	33.560	25.69	0.00	0.400											
79.4	10.745	33.632	25.76	0.00	0.400											
84.3	10.513	33.577	25.76	0.00	0.397											
89.3	10.257	33.699	25.90	0.00	0.391											
94.3	10.119	33.690	25.91	0.00	0.389											
99.4	10.034	33.665	25.91	0.00	0.389											
104.3	10.991	32.723	25.01	0.00	0.387											
109.3	9.814	33.717	25.98	0.00	0.388											
114.2	9.770	33.710	25.99	0.00	0.389											
119.0	9.649	33.763	26.05	0.00	0.388											
124.3	9.620	33.766	26.05	0.00	0.385											
129.0	9.586	33.752	26.05	0.00	0.385											
134.2	9.566	33.756	26.06	0.00	0.388											
139.0	9.454	33.818	26.12	0.00	0.386											
143.9	9.344	33.840	26.16	0.00	0.385											
149.1	9.229	33.869	26.20	0.00	0.387											
154.1	9.202	33.926	26.25	0.00	0.387											
158.9	9.149	33.942	26.27	0.00	0.388											
163.9	9.099	33.945	26.28	0.00	0.391											
168.9	8.992	33.964	26.31	0.00	0.386											
173.8	8.912	33.971	26.33	0.00	0.383											
178.8	8.800	33.979	26.35	0.00	0.383											
183.8	8.719	33.984	26.37	0.00	0.384											
188.8	8.613	34.020	26.42	0.00	0.382											

Cast Label : ODEX 3 STA 7 UP CAST

Lat. 35.1948N Long. 121.3000W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Fluor V.	Beam Atten	410 nM	441 nM	465 nM	488 nM	520 nM	540 nM	580 nM	589 nM	625 nM	671 nM	% of surface Irradiance
-8.3	13.814	37.826	28.42	0.00	0.212	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
4.8	15.281	33.382	24.68	0.00	0.601	51.72	59.60	66.09	70.87	67.73	66.84	62.65	46.16	19.72	10.07	
9.7	15.098	33.406	24.73	0.00	0.645	25.73	33.80	41.43	47.41	43.55	42.49	37.34	28.44	3.39	0.84	
14.8	14.652	33.445	24.85	0.00	0.689	11.06	17.59	24.09	29.87	27.31	26.77	22.45	9.48	0.63		
19.7	14.247	33.633	25.08	0.00	0.649	4.71	8.07	13.26	17.79	16.54	16.34	13.39	4.20			
24.7	13.481	33.661	25.26	0.00	0.573	2.00	3.91	6.97	10.51	9.76	9.29	7.22	1.92			
29.6	12.996	33.596	25.31	0.00	0.503	0.90	2.06	4.15	6.49	5.77	5.56	4.10	0.85			
34.7	12.536	33.499	25.32	0.00	0.452		1.20	2.64	4.30	3.63	3.42	2.35	0.48			
39.7	12.369	33.514	25.37	0.00	0.443		0.73	1.78	3.02	2.38	2.18	1.39				
44.6	12.028	33.694	25.57	0.00	0.443		0.46	1.23	2.19	1.61	1.44	0.84				
49.6	11.894	33.517	25.46	0.00	0.433			0.89	1.61	1.13	0.98	0.51				
54.5	11.545	33.669	25.64	0.00	0.417				0.64	1.21	0.78	0.67				
59.4	11.442	33.518	25.54	0.00	0.413				0.47	0.91	0.54	0.46				
64.5	11.293	33.573	25.61	0.00	0.410				0.36	0.69	0.38					
69.5	11.201	33.569	25.63	0.00	0.413				0.28	0.53						
74.4	10.822	33.640	25.75	0.00	0.401					0.40						
79.4	10.669	33.687	25.81	0.00	0.400											
84.4	10.424	33.788	25.94	0.00	0.397											
89.3	10.237	33.709	25.91	0.00	0.392											
94.2	10.115	33.679	25.98	0.00	0.390											
99.3	10.007	33.731	25.96	0.00	0.390											
104.3	9.895	33.709	25.97	0.00	0.389											
109.2	9.885	33.755	26.02	0.00	0.389											
114.2	9.743	33.751	26.02	0.00	0.388											
119.1	9.634	33.784	26.07	0.00	0.389											
124.2	9.613	33.769	26.06	0.00	0.385											
129.8	9.570	33.799	26.09	0.00	0.387											
134.1	9.516	33.837	26.13	0.00	0.385											
139.0	9.411	33.848	26.15	-0.01	0.384											
143.9	9.236	33.905	26.23	0.00	0.387											
149.0	9.227	33.874	26.28	0.00	0.386											
154.0	9.183	33.923	26.25	0.00	0.385											
159.0	9.127	33.950	26.28	0.00	0.387											
163.9	9.045	33.997	26.33	0.00	0.387											
168.8	8.920	34.007	26.36	0.00	0.388											
173.8	8.863	33.989	26.35	0.00	0.387											
178.8	8.758	33.976	26.36	0.00	0.384											
183.8	8.628	34.037	26.43	0.00	0.384											
188.8	8.535	34.051	26.45	0.00	0.384											

Cast Label : ODEX 3 STA 9 18-12-82 2314Z DN CAST

Lat. 35.1910N Long. 121.0680W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Fluor V.	Beam Atten	410 nM	441 nM	465 nM	488 nM	528 nM	540 nM	560 nM	589 nM	625 nM	671 nM	% of surface Irradiance
-8.3	16.894	24.650	17.79	0.00	27.631	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
4.8	15.295	33.628	24.85	0.00	0.624	45.34	50.42	56.81	62.31	61.17	61.49	57.96	40.68	14.63	6.16	
9.7	15.154	33.455	24.75	0.00	0.658	21.43	25.83	32.38	38.11	36.63	36.52	32.89	16.17	2.86	0.44	
14.9	14.877	33.503	24.85	0.00	0.655	8.81	12.72	17.63	22.45	21.32	21.22	17.68	6.28	0.31		
19.8	14.565	33.493	24.91	0.00	0.671	3.69	5.52	9.20	12.64	11.92	11.63	9.14	2.50			
24.6	14.124	33.439	24.96	0.00	0.634	1.61	2.62	4.64	7.00	6.60	6.49	4.93	1.08			
29.7	13.587	33.355	25.00	0.00	0.566	0.70	1.27	2.50	4.03	3.75	3.63	2.64	0.46			
34.7	12.586	33.244	25.12	0.00	0.474		0.67	1.46	2.48	2.21	2.08	1.43				
39.5	12.967	33.366	25.14	0.00	0.514		0.38	0.91	1.61	1.37	1.24	0.81				
44.6	12.753	33.451	25.24	0.00	0.491		0.58	1.08	0.87	0.77	0.47					
49.6	12.470	33.483	25.32	0.00	0.478		0.38	0.75	0.56	0.48						
54.6	12.049	33.537	25.45	0.00	0.436			0.53	0.38							
59.6	11.680	33.512	25.50	0.00	0.426				0.39							
64.5	11.441	33.686	25.61	0.00	0.465											
69.4	11.178	33.634	25.68	0.00	0.422											
74.4	11.136	33.586	25.65	0.00	0.418											
79.3	11.127	33.586	25.65	0.00	0.416											
84.4	11.078	33.616	25.69	0.00	0.421											
89.3	11.043	33.611	25.69	0.00	0.427											
94.3	10.966	33.641	25.73	0.00	0.425											
99.4	10.853	33.674	25.77	0.00	0.416											
104.3	10.659	33.718	25.84	0.00	0.472											
109.3	10.633	33.714	25.84	0.00	0.476											
114.3	10.591	33.723	25.86	0.00	0.453											
119.1	10.587	33.737	25.88	0.00	0.461											
124.1	10.328	33.797	25.96	0.00	0.486											
129.0	10.303	33.778	25.95	0.00	0.476											
134.1	10.272	33.795	25.97	0.00	0.531											
139.0	10.161	33.810	26.00	0.00	0.542											
144.0	10.087	33.842	26.04	0.00	0.551											
149.1	10.010	33.861	26.06	0.00	0.551											
154.1	9.859	33.913	26.13	0.00	0.539											
158.9	9.781	33.932	26.16	0.00	0.540											
163.8	9.693	33.940	26.18	0.00	0.526											
168.9	9.672	33.939	26.18	0.00	0.519											
173.9	9.621	33.962	26.21	0.00	0.527											
178.8	9.591	33.963	26.21	0.00	0.514											
183.9	9.546	33.978	26.23	0.00	0.505											
188.8	9.489	33.993	26.25	0.00	0.493											

Cast Label : ODEX 3 STA 9 10-12-82 23452 UP CAST

Lat. 35.1910N Long. 121.0680W

Z-ave M	Temp deg C	Sal. ppt	Dens. &-T	Fluor V.	Beam Atten	410 nM	441 nM	465 nM	488 nM	520 nM	540 nM	560 nM	589 nM	625 nM	671 nM	% of surface Irradiance
-0.3	15.707	35.458	26.17	0.00	0.368	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
4.8	15.209	33.387	24.69	0.00	0.638	51.74	55.34	59.28	62.40	57.64	56.87	52.17	35.60	13.17	5.46	
9.7	15.062	33.406	24.73	0.00	0.645	22.51	28.46	33.62	38.03	34.58	33.76	28.93	14.24	1.75	0.36	
14.8	14.851	33.366	24.75	0.00	0.647	9.99	13.62	18.37	22.23	19.90	19.34	15.60	5.29			
19.7	14.374	33.425	24.89	0.00	0.669	4.41	6.38	9.23	12.43	10.98	10.18	7.72	2.12			
24.6	13.775	33.336	24.95	0.00	0.610	1.85	2.94	4.86	6.92	6.09	5.82	4.21	0.89			
29.6	12.546	33.149	25.05	0.00	0.474		1.49	2.70	4.05	3.47	3.38	2.24	0.37			
34.7	12.676	33.273	25.12	0.00	0.456		0.84	1.64	2.56	2.08	1.93	1.28				
39.6	12.808	33.321	25.13	0.00	0.489			1.06	1.71	1.32	1.28	0.69				
44.6	12.241	33.485	25.37	0.00	0.457			0.71	1.18	0.86	0.78					
49.6	11.921	33.496	25.44	0.00	0.435			0.49	0.83	0.56	0.51					
54.6	11.648	33.498	25.49	0.00	0.419				0.60	0.38						
59.5	11.566	33.508	25.51	0.00	0.456				0.44							
64.4	11.351	33.576	25.61	0.00	0.449											
69.4	11.183	33.578	25.64	0.00	0.417											
74.4	11.169	33.577	25.64	0.00	0.415											
79.5	11.128	33.567	25.64	0.00	0.413											
84.3	11.033	33.617	25.70	0.00	0.422											
89.2	10.960	33.641	25.73	0.00	0.428											
94.2	10.888	33.632	25.73	0.00	0.416											
99.3	10.663	33.697	25.82	0.00	0.439											
104.2	10.625	33.708	25.84	0.00	0.455											
109.3	10.603	33.699	25.84	0.00	0.454											
114.2	10.540	33.712	25.86	0.00	0.447											
119.1	10.395	33.747	25.91	0.00	0.462											
124.1	10.308	33.774	25.95	0.00	0.488											
129.1	10.257	33.789	25.97	0.00	0.495											
134.0	10.165	33.889	26.00	0.00	0.538											
139.0	10.032	33.869	26.07	0.00	0.549											
144.0	9.984	33.854	26.06	0.00	0.545											
149.1	9.842	33.903	26.12	0.00	0.539											
154.0	9.733	33.938	26.17	0.00	0.540											
158.9	9.699	33.926	26.17	0.00	0.529											
163.9	9.669	33.945	26.19	0.00	0.525											
168.9	9.647	33.943	26.19	0.00	0.524											
173.7	9.600	33.954	26.21	0.00	0.522											
178.9	9.559	33.969	26.22	0.00	0.503											
183.8	9.514	33.975	26.24	0.00	0.503											
188.8	9.435	33.993	26.26	0.00	0.495											

Cast Label : ODEX 3 STA 14 10-14-82 2240Z DN CAST

Lat. 34.589N Long. 121.138W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Fluor V.	Beam Atten	410 nM	441 nM	465 nM	488 nM	520 nM	540 nM	560 nM	589 nM	625 nM	671 nM	% of surface Irradiance
0.3	16.013	32.758	24.82	0.00	1.011	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
5.2	16.022	33.288	24.43	0.00	0.548	59.14	66.26	70.44	73.21	67.86	66.18	61.06	43.89	17.68	7.95	
10.3	15.888	33.356	24.51	0.00	0.543	35.40	44.24	50.06	54.07	46.40	44.16	37.75	20.18	3.13	0.76	
15.2	15.744	33.379	24.56	0.00	0.553	18.70	28.77	35.27	40.03	32.38	30.17	24.82	9.00	0.57		
20.3	15.700	33.370	24.56	0.00	0.544	10.16	18.48	24.55	29.31	22.61	20.80	14.48	4.38			
25.1	15.676	33.364	24.57	0.00	0.541	5.51	10.84	16.72	20.93	15.34	13.85	9.05	2.18			
30.2	15.629	33.371	24.58	0.00	0.550	2.95	6.64	10.64	14.47	9.89	8.67	5.65	1.09			
35.2	15.214	33.326	24.64	0.00	0.575	1.50	3.89	6.89	9.77	6.82	5.98	3.71	0.59			
40.1	14.636	33.525	24.92	0.00	0.547		2.26	4.37	6.57	4.54	3.95	2.36				
45.0	13.581	33.228	24.91	0.00	0.473		1.34	2.83	4.45	2.90	2.46	1.36				
50.1	13.573	33.347	25.00	0.00	0.469		0.80	1.86	3.03	1.86	1.54	0.78				
55.0	12.927	33.558	25.29	0.00	0.478			1.23	2.08	1.21	0.98					
60.0	12.672	33.453	25.26	0.00	0.471				0.81	1.43	0.78	0.62				
64.9	12.366	33.545	25.39	0.00	0.438				0.54	0.99	0.51					
69.9	12.139	33.496	25.40	0.00	0.493					0.69						
75.0	11.993	33.589	25.44	0.00	0.493					0.48						
79.8	11.874	33.528	25.47	0.00	0.442											
84.9	11.756	33.551	25.51	0.00	0.434											
89.7	11.492	33.646	25.63	0.00	0.433											
94.9	11.318	33.558	25.59	0.00	0.414											
99.8	10.931	33.603	25.70	0.00	0.396											
104.8	10.620	33.661	25.80	0.00	0.391											
109.7	10.401	33.603	25.80	0.00	0.389											
114.7	10.280	33.698	25.90	0.00	0.386											
119.6	10.069	33.683	25.92	0.00	0.386											
124.6	9.971	33.698	25.94	0.00	0.385											
129.6	9.814	33.697	25.97	0.00	0.384											
134.6	9.587	33.785	26.08	0.00	0.383											
139.5	9.321	33.794	26.13	0.00	0.383											

PREMATURE END OF DATA FILE

Cast Label : ODEX 3 STA 19 10-15-82 1705Z DN CAST

Lat. 34.5870N Long. 122.4250W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Fluor V.	Beam Atten	410 nM	441 nM	465 nM	488 nM	520 nM	548 nM	560 nM	589 nM	625 nM	671 nM	% of surface Irradiance
-0.2	15.379	29.734	21.84	0.00	27.631	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
4.8	16.453	33.358	24.38	0.00	0.567	59.26	64.96	69.82	73.86	68.42	67.36	62.28	44.47	18.41	8.66	
9.7	16.454	33.353	24.38	0.00	0.566	35.21	42.98	49.27	54.52	47.47	45.75	39.14	20.81	3.31	0.81	
14.9	16.454	33.363	24.39	0.00	0.566	19.37	28.18	34.49	48.00	32.67	30.91	24.56	9.14	0.57		
19.7	16.455	33.365	24.39	0.00	0.566	18.94	18.06	23.67	28.77	22.19	20.73	14.68	4.27			
24.6	16.326	33.389	24.44	0.00	0.575	5.89	18.37	15.66	19.98	14.89	13.18	8.78	2.86			
29.6	16.211	33.406	24.48	0.00	0.546	3.05	5.99	9.44	13.26	9.34	8.48	5.43	1.03			
34.7	16.185	33.384	24.47	0.00	0.526	1.55	3.48	5.89	8.47	6.86	5.39	3.38	0.51			
39.7	16.131	33.369	24.47	0.00	0.541		1.85	3.58	5.31	3.79	3.35	1.94				
44.7	16.126	33.369	24.47	0.00	0.537		1.85	2.13	3.36	2.36	2.07	1.14				
49.6	14.442	34.258	25.52	0.00	0.496		0.61	1.34	2.21	1.49	1.29	0.67				
54.7	13.153	33.619	25.38	0.00	0.437			0.98	1.53	0.97	0.82					
59.4	12.893	33.461	25.22	0.00	0.416				0.64	1.13	0.66					
64.5	12.418	33.437	25.38	0.00	0.409				0.47	0.86	0.46					
69.5	11.935	33.488	25.42	0.00	0.397					0.65						
74.4	11.617	33.499	25.50	0.00	0.397					0.49						
79.4	11.276	33.519	25.58	0.00	0.398											
84.3	10.971	33.534	25.64	0.00	0.394											
89.2	10.629	33.557	25.72	0.00	0.391											
94.1	10.333	33.596	25.88	0.00	0.388											
99.3	10.091	33.581	25.83	0.00	0.386											
104.3	9.984	33.598	25.86	0.00	0.384											
109.2	9.769	33.647	25.94	0.00	0.386											
114.2	9.629	33.663	25.97	0.00	0.386											
119.1	9.569	33.663	25.98	0.00	0.384											
124.2	9.444	33.674	26.01	0.00	0.384											
129.1	9.327	33.718	26.07	0.00	0.385											
134.2	9.215	33.753	26.11	0.00	0.383											
139.0	9.170	33.738	26.11	0.00	0.383											
143.9	9.037	33.781	26.16	0.00	0.383											
149.1	8.968	33.787	26.18	0.00	0.383											
153.9	8.875	33.826	26.22	0.00	0.382											
158.9	8.785	33.846	26.25	0.00	0.382											

PREMATURE END OF DATA FILE

Cast Label : ODEX 3 STA 21 DN CAST 10-16-82 0046Z

Lat. 34.586N Long. 123.143W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Fluor V.	Beam Atten	410 nm	441 nm	465 nm	488 nm	520 nm	540 nm	560 nm	589 nm	625 nm	671 nm
-0.3	16.555	28.017	28.26	0.00	0.709	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
4.8	16.661	32.946	24.82	0.00	0.486	91.63	87.71	85.29	83.76	69.63	65.61	57.77	37.87	11.58	4.66
9.7	16.249	33.111	24.24	0.00	0.497	66.50	69.67	68.68	68.83	49.98	44.99	35.72	15.35	1.77	
14.9	16.111	32.937	24.14	0.00	0.502	44.29	51.23	52.66	53.64	35.84	30.27	28.88	6.78		
19.7	15.897	32.944	24.19	0.00	0.507	29.62	35.33	39.14	40.74	23.87	18.97	12.22	2.91		
24.7	15.791	32.899	24.18	0.00	0.494	18.96	24.13	28.48	38.82	15.54	12.22	7.13	1.27		
29.5	15.577	32.957	24.27	0.00	0.511	12.62	17.81	19.65	21.37	10.43	7.87	4.21			
34.6	15.116	33.004	24.41	0.00	0.568	7.48	10.76	13.00	14.69	6.89	5.10	2.56			
39.6	15.078	33.048	24.45	0.00	0.575	4.24	6.49	8.23	9.72	4.44	3.20	1.51			
44.7	14.659	33.043	24.54	0.00	0.568		3.82	5.87	6.26	2.79	1.99				
49.6	13.274	33.003	24.79	0.00	0.528		2.16	3.87	3.98	1.79	1.24				
54.6	12.224	33.118	25.08	0.00	0.498			1.89	2.57	1.12					
59.6	11.626	32.928	25.05	0.00	0.465				1.21	1.71					
64.4	11.178	32.922	25.13	0.00	0.438					1.18					
69.6	11.098	32.928	25.14	0.00	0.431										
74.5	11.872	32.953	25.17	0.00	0.423										
79.3	10.953	32.993	25.22	0.00	0.403										
84.4	10.865	33.023	25.26	0.00	0.397										
89.4	10.117	32.983	25.36	0.00	0.394										
94.4	9.865	32.974	25.48	0.00	0.388										
99.3	9.883	33.094	25.49	0.00	0.388										
104.3	9.734	33.107	25.52	0.00	0.385										
109.2	9.849	33.240	25.61	0.00	0.387										
114.2	10.055	33.295	25.61	0.00	0.384										

PREMATURE END OF DATA FILE

Cast Label : ODEX 3 STA 21 UP CAST 10-16-82 00582

Lat. 34.5864N Long. 123.1436W

Z-ave M	Temp deg C	Sal. ppt	Dens. &-T	Fluor V.	Beam Atten	410 nM	441 nM	465 nM	488 nM	520 nM	540 nM	560 nM	589 nM	625 nM	671 nM	% of surface Irradiance
-0.3	16.222	32.165	23.52	0.00	0.289	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
4.7	16.597	32.939	24.03	0.00	0.469	87.64	89.25	83.08	78.23	61.78	54.84	46.82	29.94	9.67	3.84	
9.7	16.380	32.946	24.08	0.00	0.476	65.38	66.08	65.96	61.80	41.91	34.91	26.50	12.14	1.34		
14.8	15.945	32.921	24.16	0.00	0.503	46.28	49.73	48.92	48.50	28.95	23.79	16.18	5.26			
19.7	15.901	32.923	24.17	0.00	0.487	32.43	37.53	38.38	37.66	20.96	16.61	10.23	2.43			
24.7	15.488	33.028	24.35	0.00	0.499	21.38	26.77	28.42	28.64	14.33	10.89	6.03				
29.6	15.128	33.004	24.41	0.00	0.533	13.59	18.30	20.36	21.19	9.96	7.38	3.74				
34.7	15.023	33.001	24.43	0.00	0.561	8.60	12.25	14.12	15.07	6.79	4.93	2.34				
39.6	14.949	32.977	24.43	0.00	0.574	5.04	7.64	9.25	10.31	4.51	3.23					
44.6	13.475	32.964	24.72	0.00	0.562		4.66	5.94	6.86	2.96	2.07					
49.6	12.638	33.002	24.92	0.00	0.506		2.76	3.73	4.52	1.90						
54.6	11.974	32.822	24.91	0.00	0.492			2.39	3.03							
59.5	11.612	32.861	25.00	0.00	0.463				2.05							
64.4	11.147	32.905	25.12	0.00	0.434											
69.6	11.118	32.918	25.14	0.00	0.431											
74.5	11.070	32.973	25.19	0.00	0.422											
79.4	10.927	32.997	25.23	0.00	0.413											
84.4	10.906	33.059	25.28	0.00	0.397											
89.4	10.122	32.972	25.35	0.00	0.395											
94.3	9.901	32.963	25.38	0.00	0.387											
99.3	9.816	33.098	25.50	0.00	0.387											
104.2	9.787	33.119	25.54	0.00	0.384											
109.3	9.861	33.239	25.68	0.00	0.383											
110.8	9.872	33.252	25.61	0.00	0.384											

PREMATURE END OF DATA FILE

Cast Label : ODEX 3 STA 25 UP CAST 10-16-82 21342

Lat. 35.8965N Long. 124.4262W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Fluor V.	Beam Atten	-----	% of surface Irradiance	410 nM	441 nM	465 nM	488 nM	520 nM	540 nM	560 nM	589 nM	625 nM	671 nM
-0.3	17.317	28.314	20.32	0.00	0.215	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
4.8	17.729	33.033	23.83	0.00	0.438	103.91	98.03	92.01	87.04	65.73	59.81	51.14	34.00	12.67	5.67		
9.7	17.547	33.034	23.88	0.00	0.443	83.57	82.57	79.05	75.76	51.36	45.03	35.09	16.77	2.23	0.48		
14.8	17.588	33.032	23.89	0.00	0.441	66.18	68.99	67.66	65.94	40.54	34.43	24.62	8.26	0.46			
19.7	17.427	33.063	23.93	0.00	0.447	50.89	56.78	57.50	57.48	32.64	26.96	17.90	4.56				
24.7	17.515	33.116	23.95	0.00	0.444	39.23	46.66	48.00	49.96	26.11	21.89	13.05	2.56				
29.6	17.588	33.160	23.97	0.00	0.439	38.59	38.69	41.63	43.49	21.89	16.62	9.35	1.52				
34.6	17.497	33.186	24.01	0.00	0.439	23.90	32.04	35.42	37.74	16.72	12.76	6.36	0.84				
39.5	17.216	32.938	23.88	0.00	0.452	18.90	26.29	29.75	32.18	13.07	9.45	4.37	0.48				
44.5	15.071	32.880	24.33	0.00	0.503	13.77	28.22	23.81	26.51	10.12	6.79	3.01	0.28				
49.6	14.112	33.088	24.69	0.00	0.481	8.26	14.44	17.97	20.88	7.30	4.93	2.03					
54.6	13.567	32.923	24.67	0.00	0.498	4.92	9.73	12.88	15.58	5.17	3.49	1.36					
59.6	13.085	32.924	24.79	0.00	0.488	2.64	5.63	8.72	11.19	3.50	2.31	0.82					
64.4	12.694	33.010	24.91	0.00	0.489	1.48	3.52	5.57	7.83	2.46	1.60	0.54					
69.4	12.317	32.952	24.94	0.00	0.452	0.86	2.28	3.86	5.45	1.73	1.10	0.34					
74.4	12.129	32.937	24.97	0.00	0.433	0.50	1.48	2.67	3.89	1.19	0.74						
79.4	11.978	32.992	25.04	0.00	0.417		0.99	1.92	2.88	0.84	0.51						
84.3	12.282	32.965	24.97	0.00	0.396		0.70	1.44	2.28	0.60	0.35						
89.4	12.228	33.151	25.11	0.00	0.388		0.52	1.12	1.74	0.43							
94.3	11.656	33.386	25.40	0.00	0.383		0.40	0.89	1.40	0.31							
99.4	11.274	33.115	25.26	0.00	0.385		0.32	0.72	1.15								
104.3	11.088	33.079	25.27	0.00	0.386			0.59	0.94								
109.3	10.838	33.088	25.31	0.00	0.384			0.48	0.78								
114.2	10.443	33.098	25.39	0.00	0.384			0.40	0.64								
119.1	10.365	33.157	25.45	0.00	0.383			0.33	0.53								
124.1	10.287	33.230	25.54	0.00	0.382			0.27	0.44								
129.0	10.030	33.338	25.65	0.00	0.382				0.36								
134.1	9.817	33.348	25.70	0.00	0.381				0.30								
139.0	9.781	33.413	25.75	0.00	0.380												
143.9	9.685	33.488	25.84	0.00	0.382												
149.1	9.478	33.560	25.92	0.00	0.382												
154.0	9.294	33.618	25.99	0.00	0.382												
158.9	9.215	33.642	26.02	0.00	0.382												
163.9	9.119	33.713	26.09	0.00	0.382												
168.9	9.081	33.756	26.13	0.00	0.382												
173.8	8.979	33.800	26.19	0.00	0.383												
178.9	8.961	33.888	26.19	0.00	0.382												
183.8	8.903	33.848	26.24	0.00	0.382												
188.8	8.850	33.873	26.26	0.00	0.382												

Cast Label : ODEX 3 STA 38 DN CAST 10-17-82 18302

Lat. 34.2977N Long. 123.4882W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Fluor V.	Beam Atten	410 nM	441 nM	465 nM	488 nM	520 nM	540 nM	560 nM	589 nM	625 nM	671 nM	% of surface Irradiance
-0.3	17.210	28.197	20.25	0.00	0.332	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
4.8	16.681	32.970	24.03	0.00	0.478	75.35	78.39	80.94	83.56	74.60	72.72	66.97	47.68	19.12	9.23	
9.7	16.665	32.954	24.02	0.00	0.468	55.32	62.29	66.04	69.86	56.47	52.93	44.63	23.37	3.65	0.79	
14.8	16.642	32.965	24.04	0.00	0.469	42.12	49.03	53.34	56.91	48.83	36.88	28.08	10.45	0.60		
19.7	16.637	32.945	24.02	0.00	0.470	31.49	38.66	43.13	46.84	38.87	27.88	19.17	5.70	0.15		
24.7	16.634	32.954	24.03	0.00	0.469	23.61	30.43	34.76	38.31	22.47	18.85	12.10	2.50			
29.6	16.635	32.962	24.04	0.00	0.468	17.10	23.38	27.51	30.98	16.64	13.56	8.87	1.30			
34.7	16.642	32.961	24.04	0.00	0.469	12.34	17.66	21.29	24.38	11.93	9.48	4.96	0.66			
39.6	14.986	32.598	24.13	0.00	0.505	7.59	12.40	15.62	18.37	8.48	6.42	3.86	0.35			
44.6	12.986	32.912	24.78	0.00	0.522	3.99	7.68	10.51	13.11	5.92	4.16	1.93	0.18			
49.6	12.691	32.926	24.85	0.00	0.514	1.97	4.18	6.68	8.88	3.69	2.69	1.18				
54.6	12.291	32.966	24.96	0.00	0.514	1.00	2.34	3.87	5.83	2.44	1.78	0.74				
59.4	11.877	32.950	25.02	0.00	0.470	0.55	1.44	2.57	3.85	1.70	1.23	0.48				
64.4	11.625	32.947	25.07	0.00	0.444	0.31	0.89	1.70	2.64	1.12	0.79	0.28				
69.4	11.344	32.964	25.13	0.00	0.444		0.58	1.18	1.88	0.76	0.52					
74.4	11.186	33.041	25.22	0.00	0.431		0.39	0.85	1.39	0.54	0.35					
79.3	18.957	32.973	25.21	0.00	0.422		0.27	0.63	1.05	0.38	0.25					
84.4	18.747	33.023	25.28	0.00	0.410		0.20	0.48	0.81	0.28						
89.3	18.618	33.022	25.31	0.00	0.405			0.37	0.64	0.20						
94.2	18.299	32.996	25.34	0.00	0.397			0.30	0.52							
99.3	18.147	32.985	25.36	0.00	0.396			0.24	0.42							
104.2	18.039	32.936	25.34	0.00	0.394			0.19	0.35							
109.2	9.926	32.942	25.36	0.00	0.391			0.16	0.29							
114.2	18.183	32.788	25.20	0.00	0.388				0.24							
119.1	9.935	33.852	25.45	0.00	0.387				0.20							
124.2	9.668	33.264	25.66	0.00	0.386											
129.0	9.705	33.364	25.73	0.00	0.387											
134.0	9.823	33.504	25.82	0.00	0.388											
139.0	9.942	33.619	25.89	0.00	0.389											
143.9	9.782	33.646	25.93	0.00	0.389											
148.9	9.417	33.692	26.03	0.00	0.388											
154.0	9.368	33.696	26.04	0.00	0.389											
158.9	9.243	33.806	26.15	0.00	0.387											
163.9	8.974	33.853	26.23	0.00	0.384											
168.9	8.818	33.875	26.27	0.00	0.384											
173.9	8.889	33.863	26.26	0.00	0.385											
178.9	8.769	33.882	26.28	0.00	0.385											
183.9	8.690	33.888	26.30	0.00	0.386											
188.9	8.593	33.989	26.33	0.00	0.386											

Cast Label : ODEX 3 STA 38 UP CAST 10-17-82 18

Lat. 34.2857N Long. 123.4038W

Z-ave	Temp	Sal.	Dens.	Fluor	Beam	410 nm	441 nm	465 nm	488 nm	520 nm	540 nm	560 nm	589 nm	625 nm	671 nm	% of surface Irradiance
M	deg C	ppt	&T	V.	Atten											
-8.3	16.689	29.832	21.62	0.00	0.474	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
4.8	16.699	32.963	24.02	0.00	0.464	73.98	78.96	81.55	84.01	75.29	73.17	67.48	49.20	20.65	10.41	
9.7	16.681	32.970	24.03	0.00	0.466	55.38	63.29	67.30	70.45	57.08	53.33	44.79	23.48	3.70	0.83	
14.8	16.678	32.973	24.04	0.00	0.467	42.49	51.07	55.32	58.49	42.85	38.47	29.55	11.67	0.73		
19.7	16.672	32.972	24.04	0.00	0.467	31.12	39.45	44.17	47.87	31.71	27.71	19.57	5.82	0.15		
24.7	16.652	32.969	24.04	0.00	0.468	23.00	30.68	35.16	38.78	23.17	19.52	12.67	2.74			
29.5	16.518	32.934	24.04	0.00	0.466	16.58	23.19	27.27	30.58	16.62	13.54	8.89	1.34			
34.7	13.468	32.954	24.72	0.00	0.510	10.96	16.41	20.17	23.30	11.72	9.38	4.92	0.66			
39.5	12.784	32.815	24.75	0.00	0.521	5.76	10.52	13.92	16.92	8.28	6.49	3.11	0.35			
44.6	12.697	32.864	24.80	0.00	0.509	2.98	6.37	9.12	11.73	5.60	4.02	1.89	0.18			
49.6	12.179	32.943	24.96	0.00	0.528	1.53	3.45	5.75	7.87	3.53	2.64	1.17				
54.6	11.864	32.957	25.03	0.00	0.474	0.83	2.06	3.51	5.25	2.37	1.77	0.73				
59.4	11.508	33.829	25.15	0.00	0.448	0.48	1.32	2.39	3.57	1.62	1.18	0.46				
64.4	11.310	32.946	25.12	0.00	0.442		0.85	1.63	2.52	1.09	0.77	0.27				
69.4	11.152	32.967	25.17	0.00	0.428		0.57	1.16	1.83	0.75	0.52					
74.4	11.056	32.993	25.21	0.00	0.428		0.39	0.85	1.37	0.53	0.35					
79.4	10.730	32.975	25.25	0.00	0.409		0.28	0.64	1.05	0.38	0.25					
84.3	10.604	33.016	25.30	0.00	0.407		0.21	0.58	0.82	0.28						
89.3	10.273	33.018	25.36	0.00	0.397			0.39	0.66	0.20						
94.3	10.134	32.936	25.32	0.00	0.395			0.32	0.53							
99.4	10.014	32.926	25.33	0.00	0.391			0.25	0.44							
104.3	9.923	32.924	25.35	0.00	0.389			0.21	0.36							
109.3	9.892	32.957	25.38	0.00	0.387			0.17	0.30							
114.3	9.922	33.894	25.48	0.00	0.387			0.14	0.24							
119.1	9.625	33.257	25.66	0.00	0.384				0.20							
124.1	9.711	33.359	25.72	0.00	0.385				0.16							
129.1	9.877	33.531	25.83	0.00	0.388											
134.0	9.912	33.648	25.91	0.00	0.389											
139.0	9.746	33.661	25.95	0.00	0.389											
143.9	9.396	33.686	26.03	0.00	0.388											
149.0	9.324	33.750	26.09	0.00	0.388											
154.0	9.152	33.781	26.14	0.00	0.387											
158.9	8.904	33.785	26.19	0.00	0.383											
163.9	8.808	33.838	26.24	0.00	0.384											
168.9	8.804	33.847	26.25	0.00	0.384											
173.8	8.779	33.862	26.27	0.00	0.385											
178.8	8.696	33.888	26.30	0.00	0.386											
183.8	8.642	33.894	26.31	0.00	0.386											
188.8	8.567	33.911	26.34	0.00	0.385											

Cast Label : ODEX 3 STA 37 DN CAST 10-18-82 1905Z

Lat. 34.2949N Long. 125.4098W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Fluor V.	Beam Atten	410 nM	441 nM	465 nM	488 nM	520 nM	548 nM	560 nM	589 nM	625 nM	671 nM	% of surface Irradiance
-8.3	16.936	15.425	10.57	0.00	0.338	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
4.7	17.912	33.044	23.80	0.00	0.444	87.92	88.49	88.22	88.57	77.29	74.58	68.32	49.88	21.26	10.13	
9.7	17.912	33.054	23.81	0.00	0.444	74.41	77.30	77.86	78.43	61.19	56.89	47.74	25.67	4.89	1.01	
14.8	17.909	33.055	23.81	0.00	0.442	62.82	67.26	68.42	69.38	48.86	42.91	32.84	12.18	0.79		
19.7	17.910	33.061	23.81	0.00	0.445	52.27	58.13	59.72	68.85	37.91	32.65	22.10	6.39			
24.5	17.910	33.058	23.81	0.00	0.441	43.46	49.85	51.67	52.85	29.88	23.86	14.83	3.45			
29.7	17.911	33.057	23.81	0.00	0.442	33.08	42.06	44.04	45.33	22.93	17.12	10.08	1.87			
34.6	17.916	33.061	23.81	0.00	0.439	26.46	35.17	37.10	38.45	16.85	12.57	6.86	1.84			
39.6	17.922	33.071	23.82	0.00	0.442	20.63	28.77	30.80	32.15	12.43	8.97	4.46				
44.6	17.818	33.061	23.84	0.00	0.443	15.59	22.08	24.81	26.22	9.16	6.37	2.93				
49.5	17.351	33.169	24.03	0.00	0.453	11.63	16.79	20.04	20.55	6.83	4.60	1.96				
54.6	15.405	33.247	24.53	0.00	0.492	7.48	11.73	13.98	15.42	4.92	3.23	1.29				
59.5	14.674	32.986	24.49	0.00	0.501	4.21	7.45	9.57	11.20	3.46	2.22					
64.4	14.623	33.173	24.65	0.00	0.463	2.46	4.81	6.57	8.02	2.39	1.49					
69.6	14.144	33.111	24.70	0.00	0.474	1.43	3.07	4.46	5.68	1.64	0.99					
74.4	13.271	32.923	24.73	0.00	0.487		1.92	3.00	4.00	1.11						
79.3	12.834	32.972	24.86	0.00	0.468		1.21	2.02	2.81	0.77						
84.3	12.544	32.988	24.93	0.00	0.438		0.77	1.39	2.00							
89.3	12.423	32.978	24.94	0.00	0.427			0.98	1.46							
94.3	12.323	32.983	24.96	0.00	0.424			0.71	1.08							
99.3	12.089	33.003	25.02	0.00	0.415				0.82							
104.2	11.931	33.017	25.07	0.00	0.408											
109.2	11.697	32.995	25.09	0.00	0.404											
114.2	11.527	33.054	25.17	0.00	0.397											
119.1	11.318	33.057	25.21	0.00	0.396											
124.1	11.171	33.088	25.26	0.00	0.394											
128.9	10.861	33.146	25.36	0.00	0.398											
134.1	10.720	33.053	25.31	0.00	0.398											
139.0	10.529	33.096	25.38	0.00	0.389											
143.8	10.513	33.156	25.43	0.00	0.387											
149.0	10.167	33.229	25.54	0.00	0.386											
154.0	10.056	33.316	25.63	0.00	0.386											
158.9	9.940	33.360	25.68	0.00	0.386											
164.0	9.930	33.438	25.75	0.00	0.385											
168.9	9.789	33.484	25.81	0.00	0.385											
173.9	9.749	33.561	25.87	0.00	0.385											
178.8	9.559	33.638	25.96	0.00	0.382											
183.9	9.396	33.696	26.04	0.00	0.383											
188.7	9.294	33.734	26.08	0.00	0.385											

Cast Label : ODEX 3 STA 37 UP CAST 10-18-82 19332

Lat. 34.2938N Long. 125.4098W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Fluor V.	Beam Atten	410 nM	441 nM	465 nM	488 nM	520 nM	540 nM	560 nM	589 nM	625 nM	671 nM
-0.3	17.770	29.040	20.77	0.00	0.381	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
4.7	17.887	33.053	23.81	0.00	0.439	84.94	87.32	87.68	88.20	77.14	74.69	68.46	50.43	28.63	18.88
9.7	17.887	33.050	23.81	0.00	0.439	71.22	76.00	76.99	77.82	60.90	56.90	47.67	25.58	4.02	0.98
14.8	17.887	33.052	23.81	0.00	0.439	59.98	66.81	67.59	68.71	48.22	43.20	32.51	12.63	0.80	
19.8	17.888	33.052	23.81	0.00	0.439	58.30	57.23	59.16	60.54	38.20	32.26	21.87	6.67		
24.6	17.889	33.052	23.81	0.00	0.436	38.89	49.28	51.46	52.96	38.12	23.39	14.91	3.51		
29.6	17.891	33.048	23.81	0.00	0.437	31.81	41.86	44.28	45.77	22.62	17.65	10.43	2.01		
34.8	17.792	33.017	23.81	0.00	0.447	25.14	34.87	37.30	38.96	16.83	12.73	6.83	1.02		
39.6	17.705	33.030	23.84	0.00	0.437	19.41	27.67	30.66	32.37	12.75	9.34	4.65			
44.7	16.410	33.526	24.52	0.00	0.452	14.72	21.22	25.24	25.91	9.60	6.80	3.10			
49.6	15.044	33.126	24.52	0.00	0.493	9.74	15.25	18.00	19.88	7.07	4.88	2.05			
54.7	14.618	32.978	24.49	0.00	0.497	5.68	9.98	12.69	14.77	5.86	3.43	1.34			
59.5	14.506	33.126	24.64	0.00	0.456	3.41	6.60	8.91	10.80	3.53	2.33				
64.4	13.582	33.241	24.92	0.00	0.474	2.10	4.40	6.25	7.82	2.46	1.61				
69.4	12.943	32.958	24.83	0.00	0.471		2.82	4.28	5.59	1.71	1.09				
74.4	12.619	32.982	24.91	0.00	0.452		1.83	2.95	3.99	1.19					
79.3	12.434	32.950	24.92	0.00	0.438		1.20	2.06	2.88						
84.5	12.361	32.983	24.96	0.00	0.418				1.48	2.12					
89.3	12.187	32.974	24.98	0.00	0.417				1.10	1.59					
94.3	11.965	33.025	25.07	0.00	0.484				0.82	1.22					
99.4	11.691	33.015	25.11	0.00	0.397					0.94					
104.2	11.547	33.005	25.13	0.00	0.397										
109.2	11.340	33.027	25.18	0.00	0.392										
114.1	11.195	33.027	25.21	0.00	0.389										
119.0	11.070	33.039	25.24	0.00	0.389										
124.3	10.813	33.013	25.26	0.00	0.386										
129.0	10.650	33.062	25.33	0.00	0.385										
134.2	10.535	33.106	25.39	0.00	0.383										
138.9	10.556	33.143	25.41	0.00	0.382										
143.9	10.170	33.215	25.53	0.00	0.382										
149.1	10.058	33.322	25.64	0.00	0.382										
154.8	9.946	33.427	25.74	0.00	0.382										
158.8	9.952	33.355	25.68	0.00	0.382										

PREMATURE END OF DATA FILE

Cast Label : ODEX 3 STA 38 DN CAST 10-18-82 2125Z

Lat. 34.9998N Long. 125.4549W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Fluor V.	Beam Atten	418 nM	441 nM	465 nM	488 nM	520 nM	540 nM	560 nM	589 nM	625 nM	671 nM	% of surface Irradiance
-8.3	16.886	29.398	21.24	0.00	0.256	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
4.9	17.846	32.976	23.76	0.00	0.451	85.08	87.24	87.39	87.92	76.21	73.33	66.74	47.39	18.78	8.48	
9.8	17.852	32.995	23.78	0.00	0.448	71.45	75.52	76.43	77.31	68.21	55.99	46.91	25.16	4.00	1.00	
14.9	17.851	33.016	23.79	0.00	0.448	59.31	65.15	66.73	67.95	47.22	42.28	32.33	12.02	0.78		
19.7	17.851	33.024	23.80	0.00	0.447	49.37	56.24	58.22	59.64	37.39	32.26	22.04	6.38			
24.7	17.847	33.026	23.80	0.00	0.447	40.86	48.17	58.47	52.12	29.66	24.23	15.03	3.52			
29.7	17.845	33.026	23.80	0.00	0.448	33.49	41.02	43.33	45.23	23.10	17.49	10.13	1.85			
34.7	17.838	33.025	23.80	0.00	0.458	25.21	34.41	37.81	38.91	17.38	12.99	7.82	1.04			
39.7	17.865	33.085	23.84	0.00	0.447	20.04	28.69	31.25	33.22	13.25	9.67	4.86	0.59			
44.6	17.914	33.092	23.83	0.00	0.443	15.89	23.81	26.26	28.08	10.16	7.15	3.31				
49.6	17.978	33.132	23.85	0.00	0.437	12.16	18.26	21.33	23.12	7.52	5.08	2.17				
54.5	16.667	33.316	24.30	0.00	0.481	8.92	13.81	17.08	18.27	5.66	3.70	1.47				
59.4	15.369	33.118	24.44	0.00	0.494	5.56	9.59	11.96	13.80	4.20	2.68	1.00				
64.4	14.747	32.946	24.45	0.00	0.492	3.29	6.27	8.38	10.12	2.93	1.87					
69.5	14.848	33.009	24.64	0.00	0.486	1.93	4.86	5.79	7.38	2.05	1.24					
74.4	13.918	32.973	24.64	0.00	0.483	1.11	2.56	3.92	5.19	1.41	0.81					
79.3	13.182	32.929	24.76	0.00	0.480		1.59	2.63	3.64	0.97						
84.3	13.014	32.961	24.81	0.00	0.461		0.99	1.77	2.56	0.68						
89.3	12.566	32.961	24.90	0.00	0.442				1.22	1.83						
94.2	12.331	32.913	24.91	0.00	0.425				0.87	1.34						
99.4	12.105	33.001	25.02	0.00	0.417				0.64	1.01						
104.2	11.913	32.939	25.01	0.00	0.412					0.77						
109.2	11.742	32.937	25.04	0.00	0.408											
114.2	11.562	32.956	25.09	0.00	0.400											
119.1	11.759	33.084	25.15	0.00	0.396											
124.2	12.154	33.215	25.18	0.00	0.389											
128.9	12.147	33.303	25.25	0.00	0.383											
134.1	12.067	33.338	25.29	0.00	0.383											
139.0	11.890	33.357	25.34	0.00	0.382											
144.0	11.580	33.413	25.44	0.00	0.382											
149.0	11.213	33.358	25.46	0.00	0.382											
154.0	11.198	33.447	25.53	0.00	0.380											
159.0	10.785	33.431	25.60	0.00	0.381											
163.9	10.625	33.498	25.67	0.00	0.380											
168.9	10.457	33.471	25.68	0.00	0.379											
173.8	9.878	33.544	25.84	0.00	0.383											
178.8	9.703	33.602	25.91	0.00	0.382											
183.9	9.615	33.577	25.91	0.00	0.382											
188.8	9.486	33.686	26.01	0.00	0.385											

Cast Label : ODEX 3 STA 38 UP CAST 10-18-82 21492

Lat. 34.9990N Long. 125.4549W

Z-ave M	Temp deg C	Sal. ppt	Dens. &-T	Fluor V.	Beam Atten	410 nm	441 nm	465 nm	488 nm	520 nm	548 nm	560 nm	589 nm	625 nm	671 nm
-0.3	17.411	30.971	22.33	0.00	0.300	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
4.7	17.850	33.029	23.88	0.00	0.443	83.63	86.53	87.08	87.71	77.41	74.91	69.05	51.54	22.83	11.56
9.7	17.852	33.030	23.88	0.00	0.443	69.60	74.75	75.93	76.92	68.45	56.19	47.26	25.78	4.20	1.08
14.7	17.853	33.029	23.88	0.00	0.443	58.84	64.42	66.23	67.41	47.65	42.75	33.86	13.24	8.90	
19.7	17.853	33.026	23.88	0.00	0.443	48.18	55.31	57.49	58.97	37.36	32.32	23.81	6.68		
24.7	17.850	33.026	23.88	0.00	0.443	39.43	47.23	49.72	51.37	29.21	24.28	14.79	3.48		
29.6	17.842	33.027	23.88	0.00	0.443	32.45	40.24	42.78	44.50	22.93	17.82	10.17	1.98		
34.7	17.837	33.019	23.88	0.00	0.454	24.65	33.88	36.48	38.31	18.81	12.96	7.82	1.08		
39.7	17.975	33.099	23.83	0.00	0.437	19.78	28.43	30.95	32.75	13.43	9.78	4.91	0.62		
44.6	17.992	33.057	23.79	0.00	0.433	15.69	23.52	26.01	27.74	10.12	7.17	3.32			
49.6	17.845	33.019	23.88	0.00	0.432	12.15	19.13	21.32	22.99	7.55	5.14	2.18			
54.7	15.748	33.122	24.36	0.00	0.484	8.76	13.63	16.78	18.34	5.54	3.66	1.43			
59.4	14.922	33.027	24.47	0.00	0.492	5.64	9.66	11.87	13.98	4.13	2.66	0.99			
64.4	14.478	33.048	24.58	0.00	0.489	3.47	6.59	8.65	10.29	3.01	1.91	0.64			
69.3	13.991	32.945	24.68	0.00	0.480	2.02	4.24	5.95	7.42	2.08	1.31				
74.5	13.467	32.994	24.75	0.00	0.481	1.16	2.71	4.85	5.27	1.44	0.89				
79.3	13.056	32.924	24.78	0.00	0.469		1.69	2.72	3.69	0.99					
84.4	12.737	32.948	24.86	0.00	0.452		1.05	1.83	2.59	0.68					
89.4	12.427	32.896	24.88	0.00	0.432		0.68	1.26	1.84						
94.3	12.133	32.936	24.96	0.00	0.417			0.98	1.34						
99.3	12.029	32.981	25.02	0.00	0.414				0.66	0.99					
104.3	11.813	32.956	25.04	0.00	0.409				0.49	0.75					
109.2	11.578	32.994	25.11	0.00	0.404					0.57					
114.2	11.446	32.959	25.11	0.00	0.397										
119.8	12.141	33.151	25.13	0.00	0.388										
124.2	12.155	33.301	25.24	0.00	0.382										
129.8	12.031	33.322	25.28	0.00	0.382										
134.1	11.925	33.347	25.32	0.00	0.382										
139.8	11.489	33.558	25.57	0.00	0.381										
143.9	11.221	33.363	25.46	0.00	0.380										
149.1	11.194	33.430	25.52	0.00	0.378										
154.8	10.875	33.614	25.72	0.00	0.378										
159.8	10.584	33.521	25.70	0.00	0.378										
164.8	10.439	33.443	25.66	0.00	0.378										
168.8	9.944	33.499	25.79	0.00	0.382										
173.8	9.726	33.567	25.88	0.00	0.381										
178.9	9.592	33.611	25.94	0.00	0.382										

PREMATURE END OF DATA FILE

Cast Label : ODEX 3 STA 44 UP CAST 10-19-82 2110Z

Lat. 34.2950N Long. 128.8990W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Fluor V.	Beam Atten	-----	% of surface Irradiance -----									
						410 nM	441 nM	465 nM	488 nM	520 nM	540 nM	560 nM	589 nM	625 nM	671 nM	
-8.4	18.808	22.941	15.88	0.00	0.544	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	
4.3	18.875	33.158	23.65	0.00	0.413	86.64	88.27	88.37	88.60	77.71	75.03	68.93	51.03	21.63	10.96	
9.2	18.835	33.159	23.66	0.00	0.414	74.36	77.67	78.20	78.50	61.31	56.70	47.41	25.69	4.05	1.01	
14.3	18.819	33.158	23.66	0.00	0.415	64.67	68.43	69.22	69.71	49.18	44.11	34.38	14.37	1.06		
19.2	18.794	33.163	23.67	0.00	0.416	55.56	60.48	61.73	62.64	39.22	33.83	23.92	6.95			
24.1	18.797	33.166	23.67	0.00	0.417	48.95	54.58	56.09	57.17	32.20	26.79	17.81	3.87			
29.2	18.805	33.171	23.68	0.00	0.417	43.42	49.57	51.51	52.80	26.50	21.27	11.76	2.13			
34.1	18.808	33.178	23.68	0.00	0.416	38.22	44.55	46.83	48.32	22.38	17.00	8.93	1.34			
39.1	18.807	33.178	23.68	0.00	0.417	32.66	39.09	41.53	43.25	18.05	12.63	6.28	0.77			
44.0	18.806	33.174	23.68	0.00	0.415	27.59	33.65	36.02	37.64	14.10	9.53	4.35	0.44			
49.1	18.804	33.168	23.67	0.00	0.416	22.84	28.50	30.71	32.30	10.51	7.09	3.00				
54.0	18.798	33.136	23.65	0.00	0.415	17.71	24.08	26.17	27.68	7.96	5.16	2.00				
59.8	18.267	33.452	24.02	0.00	0.429	14.28	20.03	22.01	23.47	6.26	3.92	1.44				
63.9	15.587	33.052	24.34	0.00	0.439	10.19	15.44	17.67	19.39	4.73	2.88	0.96				
68.9	14.814	32.964	24.45	0.00	0.433	6.59	10.38	13.50	15.31	3.56	2.12	0.66				
73.9	14.192	33.051	24.64	0.00	0.432	4.22	7.30	9.54	11.63	2.61	1.51					
78.8	13.845	32.950	24.64	0.00	0.423	2.65	5.09	7.10	8.70	1.91	1.08					
83.7	13.365	32.924	24.72	0.00	0.425	1.57	3.38	5.08	6.53	1.39	0.78					
88.8	12.675	33.025	24.93	0.00	0.424	0.90	2.24	3.63	4.89	1.02						
93.9	12.114	32.965	24.99	0.00	0.408		1.48	2.61	3.66	0.73						
98.9	11.617	33.026	25.13	0.00	0.397		1.00	1.90	2.74	0.52						
103.7	11.370	33.117	25.25	0.00	0.397		0.69	1.40	2.09							
108.7	10.919	33.243	25.42	0.00	0.392		0.49	1.05	1.61							
113.7	10.643	33.326	25.54	0.00	0.388			0.80	1.25							
118.6	10.449	33.371	25.61	0.00	0.385				0.61	0.98						
123.7	10.185	33.446	25.71	0.00	0.383				0.47	0.77						
128.6	9.820	33.531	25.84	0.00	0.382					0.60						
133.6	9.552	33.601	25.94	0.00	0.381					0.48						
138.5	9.375	33.636	25.99	0.00	0.382											
143.5	9.188	33.681	26.06	0.00	0.382											
148.4	8.982	33.728	26.13	0.00	0.382											
153.5	8.946	33.746	26.15	0.00	0.382											
158.5	8.843	33.796	26.20	0.00	0.382											
163.4	8.757	33.826	26.24	0.00	0.382											
168.3	8.681	33.860	26.28	0.00	0.382											
173.4	8.618	33.876	26.30	0.00	0.382											
178.3	8.569	33.886	26.32	0.00	0.382											
183.2	8.509	33.905	26.34	0.00	0.382											
188.4	8.435	33.918	26.36	0.00	0.382											

Cast Label : ODEX 3 STA 46 UP CAST 18-28-82 1911Z

Lat. 34.3303N Long. 138.4653W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Fluor V.	Beam Atten	410 nM	441 nM	465 nM	488 nM	520 nM	540 nM	560 nM	589 nM	625 nM	671 nM	% of surface Irradiance
-0.3	19.172	27.376	19.16	0.00	0.499	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
4.8	19.220	33.631	23.92	0.00	0.409	90.98	90.97	89.64	88.97	76.73	73.69	67.10	48.81	19.89	9.37	
9.7	19.223	33.631	23.92	0.00	0.489	80.85	81.51	79.98	79.18	68.61	56.01	46.91	25.53	4.11	1.05	
14.9	19.222	33.629	23.92	0.00	0.410	71.51	72.79	71.48	70.54	47.62	42.33	32.28	12.15	0.78		
19.7	19.222	33.632	23.92	0.00	0.489	63.38	65.13	63.70	62.83	38.15	32.57	22.14	6.63			
24.6	19.222	33.626	23.92	0.00	0.410	55.78	58.00	56.73	55.86	30.19	24.35	14.89	3.51			
29.7	19.228	33.620	23.91	0.00	0.411	48.83	51.43	50.21	49.43	24.05	18.11	10.35	1.93			
34.7	19.214	33.621	23.92	0.00	0.410	42.58	45.36	44.28	43.53	18.37	13.35	7.10	1.08			
39.6	19.179	33.561	23.88	0.00	0.413	36.71	39.55	38.70	38.02	13.98	9.97	4.88	0.61			
44.7	17.613	33.883	24.51	0.00	0.429	28.96	34.00	33.29	32.86	10.79	7.37	3.32				
49.6	16.619	33.625	24.55	0.00	0.419	23.09	28.27	28.11	27.95	8.45	5.60	2.34				
54.6	16.488	33.671	24.64	0.00	0.421	17.69	22.97	23.32	23.39	6.42	4.11	1.68				
59.4	16.156	33.680	24.70	0.00	0.421	13.66	17.80	19.48	19.26	4.93	3.84	1.08				
64.5	15.785	33.655	24.76	0.00	0.422	10.04	13.72	14.95	15.78	3.68	2.19	0.72				
69.6	15.343	33.590	24.81	0.00	0.420	7.60	11.05	12.18	12.72	2.85	1.62					
74.5	15.076	33.588	24.87	0.00	0.419	5.52	8.53	9.69	10.29	2.14	1.18					
79.3	14.620	33.723	25.07	0.00	0.417	3.99	6.55	7.70	8.30	1.61	0.87					
84.3	14.428	33.588	25.01	0.00	0.414	2.88	4.91	6.03	6.66	1.22						
89.3	14.278	33.604	25.05	0.00	0.408	1.95	3.69	4.71	5.32	0.91						
94.4	14.123	33.615	25.09	0.00	0.403	1.37	2.76	3.66	4.24	0.68						
99.3	14.234	33.607	25.06	0.00	0.399		2.08	2.86	3.37							
104.3	14.226	33.693	25.13	0.00	0.397		1.57	2.24	2.68							
109.3	14.007	33.673	25.16	0.00	0.396		1.20	1.77	2.14							
114.2	13.708	33.644	25.28	0.00	0.390		0.93	1.41	1.72							
119.1	13.518	33.619	25.22	0.00	0.388		0.73	1.14	1.39							
124.3	13.382	33.602	25.24	0.00	0.387			0.92	1.14							
129.1	13.253	33.587	25.25	0.00	0.384			0.75	0.93							
134.0	13.132	33.587	25.27	0.00	0.383			0.61	0.77							
139.0	12.981	33.564	25.29	0.00	0.382				0.63							
143.8	13.123	33.644	25.32	0.00	0.382											
149.0	13.002	33.658	25.36	0.00	0.380											
153.9	12.956	33.728	25.42	0.00	0.381											
158.9	12.465	33.823	25.59	0.00	0.378											
163.9	11.919	33.720	25.61	0.00	0.378											
168.9	11.723	33.637	25.59	0.00	0.378											
173.8	11.255	33.684	25.71	0.00	0.378											
178.9	10.953	33.695	25.77	0.00	0.377											
183.9	10.659	33.656	25.79	0.00	0.376											
188.8	10.462	33.704	25.86	0.00	0.375											

Cast Label : ODEX 3 STA 47 DN CAST 10-22-82 20552

Lat. 34.1231N Long. 134.2234W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Fluor V.	Beam Atten	410 nM	441 nM	465 nM	488 nM	520 nM	540 nM	560 nM	589 nM	625 nM	671 nM	% of surface Irradiance
-0.4	20.787	26.248	17.90	0.00	1.155	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
4.3	19.424	33.741	23.95	0.00	0.484	95.47	93.53	91.25	90.08	76.83	73.88	67.56	49.35	21.44	11.22	
9.2	19.392	33.685	23.92	0.00	0.415	84.29	83.58	81.91	81.14	61.34	56.86	47.50	24.73	4.32	1.85	
14.2	19.371	33.678	23.92	0.00	0.419	73.05	75.68	74.05	73.05	49.52	43.64	33.14	12.85	0.84	0.12	
19.3	19.361	33.676	23.92	0.00	0.414	64.81	67.96	66.63	65.56	39.77	33.77	23.67	7.14	0.22		
24.2	19.357	33.675	23.92	0.00	0.414	55.72	60.12	59.20	58.38	31.52	25.70	16.48	3.68			
29.2	19.355	33.682	23.93	0.00	0.415	49.29	53.39	52.31	51.37	24.34	19.83	11.18	1.86			
34.2	19.333	33.681	23.93	0.00	0.415	42.26	46.61	45.61	44.62	19.02	14.38	7.79	1.85			
39.1	18.550	33.673	24.12	0.00	0.422	35.31	39.64	38.93	38.15	14.39	18.39	4.84	0.55			
44.8	16.781	33.703	24.59	0.00	0.429	27.00	31.99	32.21	32.05	11.26	7.98	3.48	0.33			
49.1	16.092	33.670	24.71	0.00	0.426	20.15	25.20	26.04	26.39	8.55	5.63	2.29	0.19			
54.1	15.516	33.674	24.84	0.00	0.427	14.75	19.48	20.78	21.43	6.41	3.87	1.50				
58.9	14.831	33.545	24.89	0.00	0.421	10.62	14.89	16.45	17.28	4.68	2.73	0.98				
63.9	14.720	33.595	24.95	0.00	0.415	7.04	11.38	12.98	13.98	3.34	1.96	0.67				
68.9	14.874	33.697	25.00	0.00	0.413	4.93	8.64	10.23	11.19	2.46	1.39	0.44				
74.0	14.679	33.698	25.04	0.00	0.411	3.48	6.61	8.05	8.99	1.82	0.99	0.29				
78.9	14.827	33.766	25.06	0.00	0.411	2.45	4.67	6.31	7.18	1.34	0.70					
83.8	14.653	33.800	25.12	0.00	0.412	1.73	3.48	4.84	5.65	1.88	0.58					
88.8	14.484	33.758	25.13	0.00	0.408	1.20	2.58	3.55	4.41	0.74	0.36					
93.8	14.115	33.756	25.20	0.00	0.399	0.88	2.81	2.85	3.45	0.57	0.26					
98.8	13.852	33.688	25.21	0.00	0.397	0.63	1.53	2.23	2.73	0.43						
103.7	13.495	33.597	25.21	0.00	0.397	0.44	1.17	1.76	2.19	0.32						
108.8	13.276	33.541	25.21	0.00	0.395		0.98	1.41	1.77	0.24						
113.7	13.053	33.587	25.29	0.00	0.393		0.78	1.13	1.44	0.18						
118.6	12.771	33.464	25.25	0.00	0.392		0.55	0.91	1.17							
123.6	12.557	33.427	25.26	0.00	0.398		0.43	0.74	0.96							
128.5	12.478	33.397	25.26	0.00	0.388		0.34	0.61	0.80							
133.5	12.469	33.424	25.28	0.00	0.387		0.27	0.50	0.66							
138.5	12.366	33.415	25.29	0.00	0.386		0.22	0.41	0.56							
143.5	12.369	33.541	25.39	0.00	0.384		0.34	0.47								
148.5	12.270	33.559	25.42	0.00	0.384		0.28	0.39								
153.6	12.058	33.598	25.49	0.00	0.383		0.23	0.33								
158.4	11.610	33.601	25.58	0.00	0.382		0.20	0.28								
163.5	11.208	33.565	25.62	0.00	0.382		0.17	0.23								
168.3	10.997	33.613	25.70	0.00	0.381		0.20									
173.4	10.716	33.604	25.74	0.00	0.380											
178.2	10.552	33.685	25.83	0.00	0.380											
183.3	10.394	33.658	25.84	0.00	0.379											
188.4	10.193	33.686	25.90	0.00	0.379											

Cast Label : ODEX 3 STA 47 UP CAST 18-22-82 21292

Lat. 34.1231N Long. 134.2236W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Fluor V.	Beam Atten	410 nM	441 nM	465 nM	488 nM	520 nM	540 nM	560 nM	589 nM	625 nM	671 nM	% of surface Irradiance
0.0	19.470	33.685	23.98	0.00	0.413	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
4.8	19.467	33.685	23.98	0.00	0.406	91.29	92.28	90.95	89.63	79.27	75.74	69.38	51.81	22.82	12.14	
9.8	19.414	33.685	23.91	0.00	0.408	80.19	82.63	81.62	80.33	62.84	56.66	46.81	24.38	3.82	0.91	
14.8	19.374	33.691	23.93	0.00	0.409	73.95	75.69	73.93	72.03	48.70	42.57	32.14	12.68	0.86		
19.7	19.369	33.687	23.93	0.00	0.415	60.10	66.60	66.19	65.02	41.26	34.88	24.38	7.60	0.22		
24.7	19.364	33.674	23.92	0.00	0.411	56.10	60.80	60.03	58.96	32.53	26.57	17.16	3.93			
29.7	19.349	33.678	23.92	0.00	0.410	49.12	55.00	54.46	53.43	26.17	20.39	12.00	2.08			
34.6	19.169	33.748	24.02	0.00	0.412	43.59	49.33	48.61	47.48	20.22	15.84	7.98	1.07			
39.7	16.779	33.786	24.64	0.00	0.428	35.34	41.40	41.43	40.82	15.82	11.38	5.26	0.61			
44.6	16.122	33.758	24.77	0.00	0.423	26.70	32.94	33.87	33.97	12.27	8.61	3.67	0.37			
49.6	15.475	33.734	24.89	0.00	0.423	19.77	25.72	27.13	27.68	9.12	5.91	2.37	0.21			
54.6	14.854	33.910	25.17	0.00	0.420	14.46	19.92	21.60	22.34	6.88	4.14	1.57				
59.6	14.774	33.592	24.94	0.00	0.412	9.39	14.92	16.95	18.02	4.97	2.94	1.03				
64.5	14.837	33.634	24.96	0.00	0.411	6.60	11.43	13.38	14.53	3.56	2.11	0.68				
69.5	14.952	33.734	25.01	0.00	0.408	4.73	8.74	10.58	11.66	2.64	1.51	0.46				
74.4	14.782	33.812	25.11	0.00	0.406	3.29	6.35	8.22	9.29	1.94	1.07	0.30				
79.3	14.593	33.805	25.14	0.00	0.406	2.29	4.55	6.33	7.31	1.43	0.77					
84.4	14.181	33.861	25.27	0.00	0.397	1.62	3.42	4.67	5.70	1.07	0.56					
89.3	13.886	33.748	25.25	0.00	0.397	1.18	2.67	3.74	4.44	0.81	0.42					
94.4	13.569	33.595	25.19	0.00	0.393	0.81	1.99	2.98	3.51	0.60	0.30					
99.2	13.342	33.618	25.26	0.00	0.391	0.58	1.54	2.31	2.81	0.45						
104.3	13.219	33.544	25.22	0.00	0.388	0.41	1.18	1.84	2.27	0.34						
109.3	12.834	33.635	25.37	0.00	0.387		0.92	1.47	1.84	0.26						
114.2	12.678	33.514	25.31	0.00	0.385		0.72	1.19	1.58							
119.0	12.526	33.422	25.27	0.00	0.384		0.56	0.96	1.22							
124.2	12.445	33.411	25.27	0.00	0.383		0.44	0.79	1.00							
129.8	12.361	33.438	25.31	0.00	0.382		0.35	0.65	0.83							
134.1	12.467	33.413	25.27	0.00	0.381		0.28	0.52	0.68							
139.0	12.430	33.537	25.37	0.00	0.380		0.22	0.43	0.56							
143.9	12.279	33.553	25.42	0.00	0.379			0.35	0.46							
149.1	11.967	33.672	25.57	0.00	0.377			0.31	0.40							
154.0	11.538	33.681	25.65	0.00	0.378			0.26	0.34							
158.9	11.395	33.591	25.61	0.00	0.375			0.21	0.28							

PREMATURE END OF DATA FILE

Cast Label : ODEX 3 STA 51 UP CAST 10-26-82 00442

Lat. 34.0128N Long. 141.0898W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Fluor V.	Beam Atten	410 nM	441 nM	465 nM	488 nM	520 nM	548 nM	560 nM	589 nM	625 nM	671 nM	% of surface Irradiance
-0.4	19.850	19.630	13.12	0.00	2.930	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
4.3	19.892	34.320	24.27	0.00	0.415	111.45	101.87	94.54	90.20	73.82	69.69	62.31	44.12	17.96	8.38	
9.2	19.891	34.319	24.27	0.00	0.415	103.85	94.44	86.44	81.34	56.98	50.83	48.58	19.62	2.46	0.52	
14.3	19.892	34.320	24.27	0.00	0.415	95.39	87.89	78.55	73.10	44.86	38.42	27.69	9.37			
19.3	19.893	34.318	24.27	0.00	0.414	85.24	78.62	70.62	65.31	34.86	27.82	17.30	4.45			
24.1	19.888	34.321	24.28	0.00	0.416	75.41	70.10	62.63	57.74	27.74	20.36	12.10	2.48			
29.2	19.876	34.319	24.28	0.00	0.417	64.20	60.95	54.64	50.44	20.89	14.82	7.96	1.25			
34.3	19.867	34.318	24.28	0.00	0.417	55.23	52.99	47.32	43.48	15.26	10.69	5.25	0.66			
39.1	19.888	34.316	24.27	0.00	0.416	44.26	45.86	40.74	37.24	11.51	7.68	3.43				
44.1	19.891	34.326	24.28	0.00	0.415	37.69	39.74	35.88	31.77	8.74	5.58	2.31				
49.1	19.899	34.329	24.28	0.00	0.415	31.21	33.79	29.72	27.01	6.49	3.94	1.48				
54.0	19.896	34.314	24.27	0.00	0.414	26.93	29.53	25.88	22.69	5.14	3.03	1.07				
59.0	19.693	34.423	24.40	0.00	0.415	22.49	23.64	21.52	18.86	3.85	2.18					
64.0	17.063	34.738	25.38	0.00	0.426	18.38	19.63	17.34	15.52	2.93	1.61					
68.9	16.141	33.959	24.92	0.00	0.425	13.59	15.38	13.92	12.67	2.22	1.17					
73.9	15.314	33.974	25.12	0.00	0.423	9.87	11.93	11.12	10.26	1.68						
78.8	14.919	33.848	25.18	0.00	0.420	7.03	9.89	8.77	8.26	1.25						
83.9	14.933	33.952	25.18	0.00	0.417	4.95	6.88	6.89	6.68	0.93						
88.8	14.556	33.948	25.26	0.00	0.416	3.38	5.89	5.34	5.24							
93.8	14.484	33.856	25.22	0.00	0.412	2.31	3.73	4.09	4.13							
98.8	14.200	33.974	25.36	0.00	0.411	1.57	2.70	3.09	3.22							
103.8	14.122	33.942	25.35	0.00	0.408		1.96	2.35	2.49							
108.8	14.145	33.969	25.36	0.00	0.399		1.42	1.78	1.93							
113.8	13.979	33.968	25.39	0.00	0.397		1.05	1.36	1.50							
118.6	13.797	34.003	25.46	0.00	0.393				1.07	1.18						
123.6	13.064	33.974	25.59	0.00	0.388				0.84	0.94						
128.6	12.816	33.785	25.49	0.00	0.385				0.76							
133.6	12.635	33.856	25.58	0.00	0.383											
138.4	12.361	33.795	25.59	0.00	0.382											
143.5	12.892	33.891	25.71	0.00	0.382											
148.5	11.677	33.814	25.73	0.00	0.381											
153.6	11.362	33.799	25.78	0.00	0.379											
158.5	11.240	33.815	25.81	0.00	0.378											
163.4	10.965	33.870	25.91	0.00	0.377											
168.4	10.736	33.865	25.94	0.00	0.375											

PREMATURE END OF DATA FILE

Cast Label : ODEX 3 STA 58 DN CAST 18-27-82 2143Z

Lat. 33.5810N Long. 142.8630W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Fluor V.	Beam Atten	% of surface Irradiance									
						410 nM	441 nM	465 nM	488 nM	520 nM	540 nM	560 nM	589 nM	625 nM	671 nM
-0.3	28.987	23.494	15.78	0.00	0.246	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
4.7	28.829	34.782	24.53	0.00	0.419	89.62	90.25	89.17	89.17	77.84	74.19	67.82	48.71	19.46	9.59
9.7	28.822	34.673	24.51	0.00	0.415	81.18	82.18	80.63	79.72	59.52	54.17	44.56	22.54	3.28	0.75
14.9	28.827	34.671	24.51	0.00	0.414	78.39	72.38	71.48	70.83	46.65	40.92	38.69	11.37	0.65	
19.7	28.828	34.666	24.51	0.00	0.415	62.95	65.12	63.57	62.26	36.17	38.29	28.88	6.87	0.16	
24.7	28.814	34.665	24.51	0.00	0.415	52.08	55.95	55.88	54.21	28.38	22.81	14.39	3.84		
29.7	28.811	34.671	24.51	0.00	0.415	45.83	49.16	48.00	46.87	21.37	16.47	9.48	1.53		
34.6	28.807	34.671	24.51	0.00	0.415	38.66	42.38	41.47	40.47	16.52	12.24	6.31	0.84		
39.6	28.807	34.673	24.51	0.00	0.415	32.77	36.45	35.70	34.84	12.73	9.18	4.16	0.47		
44.6	19.991	34.678	24.52	0.00	0.415	27.94	31.50	30.79	29.95	9.84	6.58	2.88	0.28		
49.6	28.800	35.219	24.93	0.00	0.415	23.70	27.05	26.36	25.60	7.49	4.58	1.84	0.16		
54.5	17.588	34.518	25.00	0.00	0.432	19.00	22.36	22.10	21.62	5.78	3.37	1.26			
59.4	15.538	33.844	24.97	0.00	0.426	14.35	17.85	18.85	17.89	4.27	2.47	0.87			
64.4	15.143	33.822	25.84	0.00	0.423	18.40	13.80	14.42	14.54	3.10	1.76	0.57			
69.4	14.920	33.818	25.07	0.00	0.420	6.95	10.63	11.44	11.73	2.30	1.26	0.38			
74.3	14.862	33.827	25.10	0.00	0.420	4.82	8.84	8.99	9.42	1.70	0.98	0.26			
79.4	14.864	33.842	25.11	0.00	0.418	3.32	6.84	7.01	7.49	1.25	0.63				
84.4	15.821	33.968	25.17	0.00	0.417	2.26	4.14	5.38	5.88	0.98	0.43				
89.3	14.891	33.967	25.20	0.00	0.413	1.58	3.08	3.92	4.56	0.67	0.31				
94.3	14.775	33.952	25.22	0.00	0.413	1.12	2.33	3.89	3.54	0.51	0.23				
99.2	14.682	34.005	25.28	0.00	0.409	0.78	1.72	2.37	2.77	0.38					
104.2	14.768	34.048	25.29	0.00	0.399	0.56	1.30	1.85	2.19	0.29					
109.2	14.959	34.130	25.31	0.00	0.397	0.40	1.00	1.47	1.76	0.22					
114.2	14.821	34.133	25.35	0.00	0.396		0.78	1.18	1.43						
119.1	14.935	34.192	25.37	0.00	0.392		0.61	0.96	1.17						
124.2	14.766	34.178	25.39	0.00	0.388		0.49	0.79	0.97						
129.0	14.428	34.153	25.45	0.00	0.385		0.40	0.66	0.82						
134.1	13.863	34.036	25.47	0.00	0.383		0.33	0.55	0.69						
138.9	13.597	34.045	25.53	0.00	0.383		0.26	0.46	0.58						
143.9	13.264	33.978	25.54	0.00	0.384		0.21	0.39	0.49						
149.1	13.275	34.004	25.57	0.00	0.383		0.32	0.40							
154.0	13.844	34.058	25.66	0.00	0.382		0.26	0.33							
159.8	12.487	34.031	25.75	0.00	0.382		0.21	0.28							
163.9	12.894	34.081	25.86	0.00	0.382		0.17	0.23							
168.9	11.714	33.958	25.84	0.00	0.382			0.19							
173.8	11.455	33.955	25.88	0.00	0.382										
178.8	11.270	33.940	25.90	0.00	0.381										
183.9	11.060	33.991	25.98	0.00	0.380										
188.8	10.928	33.984	26.00	0.00	0.378										

Cast Label : ODEX 3 STA 63 DN CAST 10-28-82 22132

Lat. 33.4470N Long. 141.1760W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Fluor V.	Beam Atten	410 nm	441 nm	465 nm	488 nm	520 nm	540 nm	560 nm	589 nm	625 nm	671 nm	% of surface Irradiance
-0.4	20.117	23.485	15.97	0.00	8.496	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
4.3	19.816	34.168	24.18	0.00	0.415	91.64	91.43	90.86	89.11	76.38	73.38	67.14	48.97	20.16	18.82	
9.3	19.775	34.172	24.19	0.00	0.417	81.35	82.36	80.88	79.69	60.50	55.54	46.42	25.02	4.85	1.84	
14.2	19.724	34.173	24.21	0.00	0.418	72.39	74.09	72.66	71.25	48.14	42.38	32.58	13.37	0.92		
19.3	19.715	34.178	24.21	0.00	0.425	63.91	66.40	64.91	63.40	37.92	32.84	22.56	6.56			
24.2	19.718	34.174	24.21	0.00	0.418	55.85	58.89	57.58	56.82	29.72	24.10	15.15	3.44			
29.2	19.787	34.172	24.21	0.00	0.418	48.61	51.95	50.64	49.17	23.17	18.89	9.96	1.82			
34.2	19.785	34.179	24.22	0.00	0.419	42.05	45.57	44.34	42.93	18.28	13.21	6.84	1.02			
39.1	19.703	34.175	24.21	0.00	0.419	36.13	39.75	38.65	37.35	14.21	9.43	4.62	0.57			
44.1	19.699	34.165	24.21	0.00	0.421	30.78	34.31	33.35	32.22	10.78	6.96	3.16				
49.0	18.823	34.827	25.14	0.00	0.432	25.50	28.98	28.31	27.42	8.85	5.21	2.22				
54.0	16.349	34.863	24.95	0.00	0.432	17.83	23.23	23.31	22.94	6.06	3.75	1.47				
58.8	15.934	33.982	24.98	0.00	0.430	12.91	18.24	18.85	18.88	4.53	2.71	0.98				
64.0	15.317	33.795	24.98	0.00	0.426	9.14	14.08	15.04	15.33	3.48	1.98	0.68				
68.9	15.003	33.906	25.13	0.00	0.425	6.61	10.43	12.34	12.28	2.59	1.43					
73.9	14.736	33.892	25.18	0.00	0.424	4.66	7.99	9.26	9.77	1.95	1.05					
78.9	14.686	33.907	25.20	0.00	0.425	3.17	5.93	7.18	7.76	1.44	0.74					
83.8	14.662	33.972	25.25	0.00	0.423	2.28	4.44	5.68	6.17	1.08	0.53					
88.9	14.435	33.966	25.30	0.00	0.420	1.49	3.26	4.32	4.98	0.88						
93.8	14.344	33.945	25.30	0.00	0.421	0.99	2.37	3.29	3.86	0.61						
98.8	14.136	33.942	25.34	0.00	0.422		1.73	2.51	3.02	0.45						
103.8	13.925	33.901	25.36	0.00	0.416		1.24	1.98	2.35							
108.7	13.882	33.923	25.38	0.00	0.412		0.91	1.45	1.84							
113.7	13.796	33.941	25.41	0.00	0.405		0.68	1.13	1.45							
118.6	13.529	33.918	25.45	0.00	0.397		0.51	0.87	1.16							
123.6	13.006	33.884	25.53	0.00	0.396			0.78	0.93							
128.5	12.614	33.783	25.53	0.00	0.393			0.57	0.76							
133.5	12.368	33.745	25.55	0.00	0.391			0.46	0.63							
138.4	12.175	33.827	25.65	0.00	0.390			0.38	0.52							
143.5	12.002	33.792	25.65	0.00	0.388			0.43								
148.5	11.774	33.815	25.71	0.00	0.387											
153.6	11.588	33.855	25.78	0.00	0.385											
158.5	11.387	33.849	25.81	0.00	0.385											
163.4	11.184	33.852	25.85	0.00	0.385											
168.4	11.010	33.878	25.90	0.00	0.383											
173.3	10.863	33.928	25.97	0.00	0.381											
178.4	10.806	33.932	25.98	0.00	0.382											
183.2	10.690	33.961	26.02	0.00	0.381											
188.4	10.622	33.967	26.04	0.00	0.380											

Cast Label : ODEX 3 STA 66 DN CAST 10-29-82 20552

Lat. 33.3343N Long. 141.3892W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Fluor V.	Beam Atten	410 nM	441 nM	465 nM	488 nM	520 nM	540 nM	568 nM	589 nM	625 nM	671 nM	% of surface Irradiance
-0.3	19.287	23.750	16.48	0.00	27.631	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
4.8	19.782	34.336	24.32	0.00	0.418	93.74	92.92	98.92	98.87	76.81	74.86	67.18	47.81	19.15	9.19	
9.7	19.782	34.341	24.32	0.00	0.417	84.35	84.65	82.52	81.37	61.86	57.38	47.74	25.60	4.27	1.10	
14.8	19.783	34.344	24.32	0.00	0.422	75.12	76.52	74.52	73.38	49.28	43.75	33.29	13.32	0.87		
19.7	19.784	34.343	24.32	0.00	0.441	66.49	68.48	66.74	65.45	39.36	33.70	23.78	6.97			
24.6	19.781	34.339	24.32	0.00	0.416	58.09	60.68	59.03	57.77	38.86	25.39	16.39	3.61			
29.6	19.785	34.349	24.32	0.00	0.416	49.97	53.00	51.64	50.40	24.10	19.03	10.55	1.95			
34.7	19.787	34.342	24.32	0.00	0.415	42.61	45.87	44.72	43.59	18.42	13.35	6.98	1.81			
39.7	19.782	34.341	24.32	0.00	0.415	36.23	39.44	38.47	37.47	14.48	9.79	4.84	0.62			
44.6	19.776	34.336	24.32	0.00	0.415	38.69	33.77	32.94	32.08	18.79	7.16	3.26				
49.6	19.751	34.327	24.32	0.00	0.413	25.66	28.68	27.94	27.38	7.96	5.17	2.17				
54.6	19.081	34.429	24.59	0.00	0.423	19.71	23.90	23.45	22.93	6.12	3.84	1.51				
59.5	16.691	34.865	24.87	0.00	0.426	14.79	18.95	18.97	18.80	4.50	2.70	0.98				
64.4	15.774	33.992	25.03	0.00	0.425	18.48	14.49	14.86	14.98	3.31	1.92	0.66				
69.4	15.258	33.923	25.09	0.00	0.423	7.41	10.46	11.92	11.65	2.46	1.37					
74.6	15.845	33.934	25.14	0.00	0.421	5.84	7.73	8.62	8.97	1.76	0.94					
79.3	14.982	33.968	25.28	0.00	0.419	3.43	5.65	6.52	6.90	1.27	0.64					
84.3	14.477	33.879	25.22	0.00	0.423	2.28	4.88	4.92	5.33	0.98						
89.3	14.400	33.933	25.28	0.00	0.421	1.53	2.95	3.73	4.14	0.66						
94.3	14.238	33.933	25.32	0.00	0.423	1.82	2.14	2.83	3.23	0.48						
99.4	14.086	33.931	25.35	0.00	0.426		1.56	2.16	2.54							
104.2	13.948	33.914	25.36	0.00	0.426		1.15	1.66	2.02							
109.3	13.885	33.930	25.39	0.00	0.413		0.86	1.31	1.61							
114.3	13.818	33.948	25.41	0.00	0.410		0.65	1.03	1.30							
119.8	13.703	33.943	25.43	0.00	0.405		0.50	0.83	1.05							
124.2	13.404	33.915	25.47	0.00	0.397			0.65	0.85							
129.8	13.166	33.894	25.51	0.00	0.396			0.52	0.68							
134.1	12.935	33.846	25.51	0.00	0.395			0.43	0.55							
139.0	12.540	33.883	25.56	0.00	0.391			0.45								
143.9	12.441	33.824	25.59	0.00	0.389											
149.1	12.187	33.849	25.66	0.00	0.389											
154.8	11.941	33.836	25.70	0.00	0.388											
158.9	11.443	33.836	25.79	0.00	0.385											
163.9	11.198	33.822	25.83	0.00	0.384											
168.9	11.042	33.851	25.88	0.00	0.382											
173.8	10.966	33.879	25.91	0.00	0.382											
178.9	10.740	33.892	25.96	0.00	0.381											
183.8	10.682	33.896	25.98	0.00	0.381											
188.8	10.571	33.930	26.02	0.00	0.379											

Cast Label : ODEX 3 STA 66 UP CAST 10-29-82 2119Z

Lat. 33.3343N Long. 141.3892W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Fluor V.	Beam Atten	418 nM	441 nM	465 nM	488 nM	520 nM	540 nM	560 nM	589 nM	625 nM	671 nM	% of surface Irradiance
-0.2	19.730	33.163	23.43	0.00	1.815	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
4.8	19.778	34.345	24.32	0.00	0.413	90.87	91.49	90.35	89.91	77.88	74.82	68.38	49.50	20.48	9.79	
9.7	19.781	34.345	24.32	0.00	0.413	81.37	83.03	81.74	80.94	62.24	57.52	48.14	26.10	4.17	1.87	
14.9	19.788	34.344	24.32	0.00	0.412	72.48	75.05	73.85	72.94	49.04	43.56	32.92	12.12	0.72		
19.7	19.779	34.344	24.32	0.00	0.412	64.76	67.81	66.68	65.83	39.69	33.75	23.05	6.76			
24.7	19.782	34.345	24.32	0.00	0.412	57.58	61.25	60.25	59.39	32.05	26.33	15.74	3.65			
29.6	19.788	34.346	24.32	0.00	0.411	51.29	55.19	54.26	53.36	26.21	20.11	11.48	2.28			
34.5	19.781	34.344	24.32	0.00	0.412	45.23	49.31	48.43	47.63	21.22	15.03	8.14	1.38			
39.5	19.775	34.342	24.32	0.00	0.410	39.57	43.78	42.92	42.19	16.11	11.38	5.67	0.74			
44.6	19.738	34.329	24.32	0.00	0.408	34.36	38.45	37.78	37.06	12.31	8.44	3.84				
49.6	19.637	34.375	24.38	0.00	0.408	27.36	33.27	32.88	32.22	9.60	6.34	2.65				
54.5	18.523	34.334	24.64	0.00	0.418	22.55	28.14	27.87	27.51	7.37	4.67	1.81				
59.5	16.639	34.076	24.89	0.00	0.422	17.30	22.77	22.92	22.93	5.61	3.43	1.23				
64.4	15.481	34.011	25.11	0.00	0.421	13.08	17.43	19.23	18.65	4.37	2.57	0.84				
69.4	15.123	33.937	25.13	0.00	0.417	9.23	13.29	14.42	14.96	3.27	1.89					
74.4	14.984	33.923	25.16	0.00	0.416	6.46	10.11	11.38	11.95	2.43	1.35					
79.3	14.613	33.917	25.22	0.00	0.417	4.51	7.60	8.98	9.56	1.81	0.99					
84.3	14.563	33.958	25.26	0.00	0.413	3.10	5.66	6.93	7.61	1.34						
89.3	14.342	33.937	25.30	0.00	0.417	2.11	4.17	5.34	6.01	0.99						
94.3	14.157	33.921	25.32	0.00	0.420	1.41	3.02	4.05	4.69	0.72						
99.4	13.844	33.933	25.40	0.00	0.421		2.17	3.04	3.62							
104.3	13.901	33.898	25.35	0.00	0.408		1.56	2.29	2.79							
109.2	13.815	33.943	25.41	0.00	0.401		1.13	1.73	2.15							
114.2	13.599	33.962	25.47	0.00	0.397		0.84	1.34	1.67							
119.1	13.440	33.926	25.48	0.00	0.396			1.04	1.32							
124.2	13.274	33.901	25.49	0.00	0.393			0.83	1.05							
129.8	12.858	33.866	25.55	0.00	0.398			0.66	0.83							
134.1	12.429	33.778	25.56	0.00	0.387			0.53	0.66							
139.0	12.411	33.831	25.61	0.00	0.387											
143.9	12.281	33.827	25.63	0.00	0.386											
149.0	11.896	33.866	25.73	0.00	0.383											
153.9	11.468	33.823	25.78	0.00	0.382											
159.0	11.234	33.817	25.82	0.00	0.382											
163.9	11.143	33.851	25.86	0.00	0.381											
168.8	10.950	33.859	25.90	0.00	0.379											
173.8	10.785	33.898	25.96	0.00	0.378											
178.9	10.730	33.895	25.97	0.00	0.377											
183.8	10.626	33.937	26.02	0.00	0.375											
188.8	10.530	33.953	26.05	0.00	0.375											

Cast Label : ODEX 3 STA 72 DN CAST 10-31-82 1844Z

Lat. 31.2648N Long. 141.3678W

Z-ave M	Temp deg C	Sal. ppt	Dens. &-T	Fluor V.	Beam Atten	410 nM	441 nM	465 nM	488 nM	520 nM	548 nM	560 nM	589 nM	625 nM	671 nM	% of surface Irradiance
-0.3	21.874	26.078	17.49	0.00	0.240	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
4.8	21.413	35.137	24.49	0.00	0.451	88.11	98.12	98.21	98.21	88.18	77.05	71.81	51.87	28.38	9.89	
9.7	21.483	35.148	24.58	0.00	0.409	83.48	82.51	81.64	81.12	68.81	55.81	45.92	22.77	3.86	8.67	
14.9	21.395	35.128	24.49	0.00	0.407	76.90	75.76	73.72	72.22	46.34	48.16	29.51	10.53	0.58		
19.7	21.394	35.118	24.48	0.00	0.407	66.66	66.03	64.65	63.71	36.40	30.64	20.84	5.43			
24.6	21.394	35.103	24.47	0.00	0.408	55.64	56.95	56.13	55.47	28.21	22.72	14.08	2.71			
29.6	21.394	35.099	24.47	0.00	0.408	47.41	49.33	48.65	48.86	21.53	16.61	9.44	1.39			
34.6	21.394	35.116	24.48	0.00	0.407	48.45	42.53	41.88	41.28	15.96	11.75	5.57	0.67			
39.6	21.394	35.098	24.46	0.00	0.407	34.44	36.45	35.92	35.43	12.63	9.07	4.02	0.43			
44.7	21.395	35.111	24.47	0.00	0.406	29.79	31.59	38.92	38.32	9.57	6.18	2.68	0.24			
49.6	21.379	35.106	24.47	0.00	0.407	25.49	27.16	26.52	25.91	7.25	4.44	1.75				
54.6	21.019	35.028	24.51	0.00	0.411	20.41	22.41	22.20	21.93	5.52	3.27	1.20				
59.4	19.070	35.016	25.02	0.00	0.414	16.40	18.42	18.43	18.24	3.99	2.33	0.88				
64.4	18.264	34.686	24.97	0.00	0.412	11.45	14.58	14.87	14.94	2.97	1.67	0.54				
69.3	17.867	34.673	25.86	0.00	0.411	8.34	11.31	11.95	12.15	2.22	1.28	0.37				
74.4	17.772	34.666	25.08	0.00	0.409	6.06	8.78	9.51	9.82	1.62	0.84					
79.4	17.334	34.561	25.10	0.00	0.408	4.32	6.26	7.46	7.84	1.19	0.59					
84.4	17.388	34.661	25.16	0.00	0.406	3.17	4.82	5.72	6.28	0.98	0.42					
89.3	17.661	34.742	25.16	0.00	0.397	2.34	3.76	4.51	4.88	0.67	0.29					
94.3	17.578	34.745	25.18	0.00	0.398	1.69	2.86	3.52	3.87	0.51						
99.3	17.478	34.764	25.22	0.00	0.397	1.23	2.18	2.77	3.09	0.38						
104.1	17.251	34.752	25.27	0.00	0.398	0.91	1.69	2.28	2.47	0.29						
109.2	17.054	34.675	25.26	0.00	0.397	0.67	1.31	1.74	1.98	0.22						
114.2	16.777	34.589	25.25	0.00	0.397	0.49	1.01	1.39	1.59							
119.8	16.702	34.602	25.28	0.00	0.397		0.79	1.11	1.29							
124.2	16.653	34.594	25.29	0.00	0.396		0.62	0.98	1.04							
129.1	16.573	34.587	25.30	0.00	0.395		0.49	0.73	0.85							
134.2	16.531	34.583	25.31	0.00	0.394		0.48	0.68	0.71							
139.8	16.435	34.591	25.34	0.00	0.398		0.32	0.58	0.59							
143.9	16.469	34.606	25.34	0.00	0.389		0.26	0.42	0.58							
149.8	16.331	34.573	25.35	0.00	0.387			0.35	0.42							
154.8	16.188	34.542	25.36	0.00	0.386			0.38	0.36							
158.9	16.845	34.532	25.38	0.00	0.385			0.25	0.31							
163.9	15.733	34.450	25.39	0.00	0.383			0.21	0.26							
168.9	15.500	34.487	25.47	0.00	0.382				0.22							
173.8	15.252	34.483	25.46	0.00	0.384											
178.8	14.953	34.421	25.54	0.00	0.382											
183.7	14.783	34.353	25.52	0.00	0.382											
188.9	14.238	34.317	25.61	0.00	0.382											

Cast Label : ODEX 3 STA 73 DN CAST 10-31-82 23522

Lat. 31.0260N Long. 141.3498W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Fluor V.	Beam Atten	410 nM	441 nM	465 nM	488 nM	520 nM	540 nM	560 nM	589 nM	625 nM	671 nM	% of surface Irradiance
0.0	21.846	34.983	24.47	0.00	0.427	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
4.7	21.847	34.971	24.46	0.00	0.415	92.83	92.34	92.06	91.43	88.22	77.21	70.58	58.88	21.24	10.43	
9.7	21.823	34.976	24.47	0.00	0.414	86.26	86.29	85.51	84.27	64.99	60.08	58.02	25.59	4.21	1.07	
14.8	21.818	34.969	24.47	0.00	0.414	79.34	80.22	79.34	78.00	53.29	47.01	35.87	13.06	0.89		
19.7	20.979	34.967	24.48	0.00	0.415	72.86	74.80	73.64	72.19	43.59	36.97	24.04	6.89			
24.7	20.958	34.971	24.49	0.00	0.416	66.68	68.98	67.78	66.35	36.20	28.82	17.77	4.15			
29.7	20.954	34.967	24.48	0.00	0.416	59.94	62.87	61.68	60.33	29.49	21.50	12.55	2.29			
34.6	20.954	34.968	24.49	0.00	0.417	53.38	56.66	55.41	54.14	22.86	16.39	8.79	1.28			
39.6	20.960	34.968	24.48	0.00	0.417	46.94	50.47	49.33	48.86	17.61	12.43	6.17				
44.6	20.960	34.977	24.49	0.00	0.416	40.38	44.42	43.34	42.24	13.78	9.33	4.28				
49.6	20.921	34.998	24.52	0.00	0.417	32.71	38.70	37.88	36.72	10.73	6.97	2.96				
54.6	20.539	34.976	24.68	0.00	0.421	27.16	32.87	32.23	31.44	8.27	5.16	2.04				
59.4	19.541	34.836	24.76	0.00	0.423	21.63	27.33	27.11	26.44	6.33	3.77	1.40				
64.3	19.245	34.766	24.78	0.00	0.424	17.12	21.30	23.86	21.95	4.88	2.82					
69.4	18.443	34.762	24.98	0.00	0.419	13.24	17.35	18.17	18.17	3.86	2.13					
74.4	18.355	34.713	24.97	0.00	0.417	9.92	13.76	14.82	15.88	2.98	1.55					
79.4	18.026	34.778	25.10	0.00	0.414	7.46	10.91	12.89	12.49	2.28	1.15					
84.4	17.605	34.664	25.11	0.00	0.414	5.54	8.54	9.77	10.27	1.75						
89.4	17.468	34.673	25.15	0.00	0.413	4.08	6.61	7.81	8.36	1.34						
94.3	17.145	34.630	25.20	0.00	0.410	2.94	5.07	6.18	6.74	1.00						
99.4	16.921	34.551	25.19	0.00	0.413	2.13	3.85	4.84	5.41							
104.3	16.880	34.568	25.21	0.00	0.409	1.56	2.96	3.83	4.35							
109.2	16.854	34.602	25.25	0.00	0.399		2.30	3.07	3.50							
114.2	16.805	34.599	25.26	0.00	0.397		1.80	2.45	2.84							
119.1	16.888	34.616	25.27	0.00	0.397		1.41	1.98	2.32							
124.2	16.738	34.602	25.27	0.00	0.397		1.12	1.60	1.91							
129.1	16.710	34.579	25.26	0.00	0.395		0.89	1.31	1.59							
134.1	16.528	34.595	25.32	0.00	0.392			1.18	1.33							
139.0	16.367	34.558	25.33	0.00	0.388			0.92	1.13							
144.0	16.267	34.559	25.35	0.00	0.387			0.78	0.97							
149.0	16.105	34.513	25.35	0.00	0.385				0.83							
154.0	15.887	34.426	25.33	0.00	0.384											
158.9	15.798	34.498	25.41	0.00	0.384											
163.9	15.714	34.485	25.42	0.00	0.384											
168.9	15.743	34.516	25.44	0.00	0.384											
173.9	15.456	34.466	25.46	0.00	0.383											
178.7	15.868	34.505	25.58	0.00	0.382											
183.9	14.861	34.383	25.53	0.00	0.382											
188.8	14.521	34.365	25.59	0.00	0.382											

Cast Label : ODEX 3 STA 73 UP CAST 10-31-82 2359Z

Lat. 31.0260N Long. 141.3490W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Fluor V.	Beam Atten	410 nM	441 nM	465 nM	488 nM	520 nM	540 nM	560 nM	589 nM	625 nM	671 nM	% of surface Irradiance
-0.4	28.871	32.001	22.25	0.00	1.268	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
4.4	21.048	34.973	24.46	0.00	0.412	91.91	91.92	98.71	89.98	78.15	75.50	69.47	51.58	22.87	12.44	
9.2	21.041	34.976	24.47	0.00	0.412	81.49	82.88	81.52	80.58	61.61	56.94	47.44	25.89	3.94	1.00	
14.2	21.016	34.973	24.47	0.00	0.413	72.29	74.36	72.76	71.49	48.01	42.39	32.17	12.07	0.78		
19.2	20.988	34.988	24.49	0.00	0.413	63.61	65.75	63.84	62.51	37.10	31.59	22.15	6.21			
24.2	20.966	34.973	24.49	0.00	0.414	55.08	57.43	55.59	54.10	28.73	23.62	14.39	3.29			
29.1	20.962	34.969	24.48	0.00	0.413	47.48	49.97	48.14	46.66	21.98	16.70	9.42	1.68			
34.2	20.962	34.968	24.48	0.00	0.414	41.08	43.52	41.74	40.33	17.13	12.06	6.43	0.94			
39.1	20.961	34.978	24.49	0.00	0.415	35.21	37.79	36.26	34.95	12.76	8.92	4.38	0.53			
44.1	20.946	34.984	24.50	0.00	0.414	30.27	32.85	31.37	30.30	9.57	6.49	2.92				
49.1	20.894	35.006	24.53	0.00	0.417	25.71	28.18	27.04	26.16	7.34	4.78	1.98				
53.9	20.337	35.057	24.72	0.00	0.417	20.21	24.19	23.20	22.39	5.71	3.58	1.39				
59.0	19.386	34.889	24.84	0.00	0.420	16.02	19.93	19.38	18.89	4.32	2.60	0.93				
63.9	18.679	34.861	25.00	0.00	0.419	12.29	16.13	15.97	15.65	3.29	1.98	0.63				
68.9	18.378	34.746	24.99	0.00	0.417	9.54	12.43	13.54	12.88	2.55	1.43					
74.0	18.176	34.832	25.10	0.00	0.414	7.17	9.86	10.37	10.41	1.95	1.06					
78.8	17.678	34.722	25.14	0.00	0.413	5.33	7.70	8.33	8.48	1.46	0.76					
83.8	17.568	34.697	25.15	0.00	0.410	3.92	5.97	6.65	6.98	1.11						
88.8	17.292	34.624	25.16	0.00	0.412	2.87	4.59	5.27	5.57	0.84						
93.8	16.913	34.623	25.25	0.00	0.410	2.07	3.48	4.13	4.45	0.63						
98.8	16.750	34.541	25.22	0.00	0.409	1.49	2.63	3.21	3.51	0.47						
103.7	16.776	34.515	25.20	0.00	0.407	1.08	1.99	2.48	2.76							
108.7	16.825	34.576	25.23	0.00	0.399	0.79	1.51	1.94	2.18							
113.7	16.789	34.628	25.28	0.00	0.397		1.17	1.54	1.73							
118.6	16.802	34.624	25.28	0.00	0.397		0.91	1.22	1.39							
123.6	16.741	34.624	25.29	0.00	0.397		0.72	0.99	1.13							
128.6	16.514	34.628	25.34	0.00	0.391		0.57	0.80	0.93							
133.6	16.335	34.577	25.35	0.00	0.388			0.67	0.77							
138.4	16.303	34.550	25.34	0.00	0.387			0.56	0.64							
143.5	16.159	34.563	25.38	0.00	0.385			0.46	0.54							
148.6	16.122	34.524	25.36	0.00	0.384											
153.5	15.899	34.517	25.40	0.00	0.383											
158.4	15.817	34.517	25.42	0.00	0.383											
163.4	15.798	34.519	25.43	0.00	0.383											
168.3	15.708	34.504	25.44	0.00	0.383											
173.4	15.266	34.456	25.58	0.00	0.382											
178.4	14.921	34.432	25.55	0.00	0.382											
183.2	14.703	34.414	25.59	0.00	0.381											
188.4	14.229	34.358	25.65	0.00	0.381											

Cast Label : ODEX 3 STA 77B UP CAST 11-1-82 2133Z

Lat. 30.0210N Long. 141.2210W

Z-ave M	Temp deg C	Sal. ppt	Dens. &-T	Fluor V.	Beam Atten	410 nM	441 nM	465 nM	488 nM	520 nM	548 nM	568 nM	589 nM	625 nM	671 nM	% of surface Irradiance
-0.4	21.333	26.566	18.08	0.00	4.888	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
4.3	21.384	34.986	24.38	0.00	0.410	98.22	98.86	89.04	88.28	77.09	74.43	69.81	53.17	24.75	14.18	
9.3	21.242	35.004	24.44	0.00	0.413	79.72	88.95	79.05	78.89	59.95	55.49	46.82	25.96	4.57	1.27	
14.3	21.210	34.989	24.43	0.00	0.414	70.51	72.52	78.35	69.16	46.77	41.50	31.97	13.38	0.96		
19.3	21.210	34.989	24.43	0.00	0.414	62.50	64.97	62.78	61.25	36.88	31.48	22.29	6.62			
24.3	21.197	34.993	24.44	0.00	0.415	54.87	57.73	55.58	54.06	28.63	23.50	15.24	3.38			
29.1	21.052	34.986	24.47	0.00	0.415	48.10	51.14	48.92	47.54	22.78	18.03	10.14	1.91			
34.1	21.086	34.980	24.48	0.00	0.417	41.75	45.01	43.08	41.62	17.92	13.26	7.85	1.08			
39.1	20.911	34.984	24.51	0.00	0.417	35.98	39.39	37.53	36.32	14.07	9.64	4.83	0.61			
44.1	20.879	34.983	24.52	0.00	0.415	38.97	34.31	32.71	31.59	10.88	7.23	3.34	0.35			
49.1	20.853	34.971	24.52	0.00	0.415	26.61	29.88	28.48	27.41	8.14	5.38	2.32				
54.0	20.798	34.977	24.54	0.00	0.415	22.57	25.69	24.46	23.67	6.29	3.99	1.58				
59.0	20.129	35.242	24.92	0.00	0.421	18.94	21.88	20.95	20.25	4.82	2.93	1.08				
64.0	18.889	34.806	24.90	0.00	0.423	14.07	18.83	17.52	17.12	3.69	2.17	0.74				
68.9	18.417	34.781	25.00	0.00	0.419	10.78	14.64	14.51	14.26	2.82	1.61	0.52				
73.9	18.192	34.720	25.01	0.00	0.417	8.03	11.59	11.73	11.70	2.12	1.15					
78.8	17.984	34.787	25.06	0.00	0.416	6.15	8.79	9.78	9.50	1.64	0.87					
83.8	17.881	34.684	25.08	0.00	0.415	4.62	6.96	7.58	7.68	1.25	0.65					
88.9	17.748	34.709	25.12	0.00	0.413	3.38	5.36	5.95	6.19	0.94	0.46					
93.7	17.266	34.593	25.14	0.00	0.414	2.48	4.12	4.71	4.99	0.71						
98.8	17.101	34.648	25.22	0.00	0.413	1.79	3.14	3.71	4.00	0.53						
103.7	16.619	34.519	25.24	0.00	0.416	1.29	2.38	2.91	3.28	0.48						
108.9	16.422	34.519	25.28	0.00	0.410	0.92	1.88	2.27	2.55							
113.8	16.304	34.479	25.28	0.00	0.407	0.66	1.37	1.78	2.04							
118.6	16.187	34.515	25.33	0.00	0.397		1.06	1.41	1.63							
123.6	15.965	34.492	25.37	0.00	0.397		0.88	1.11	1.32							
128.5	15.818	34.418	25.34	0.00	0.395		0.63	0.90	1.07							
133.6	15.931	34.433	25.33	0.00	0.393		0.58	0.73	0.88							
138.6	15.888	34.498	25.39	0.00	0.389		0.41	0.61	0.73							
143.4	15.687	34.517	25.45	0.00	0.388			0.51	0.62							
148.5	15.385	34.551	25.56	0.00	0.387			0.43	0.52							
153.5	15.105	34.426	25.51	0.00	0.388			0.37	0.45							
158.5	14.978	34.358	25.48	0.00	0.387			0.31	0.38							
163.4	14.567	34.507	25.69	0.00	0.384											
168.3	14.238	34.249	25.56	0.00	0.383											
173.3	14.807	34.283	25.63	0.00	0.383											
178.4	13.695	34.262	25.68	0.00	0.384											
183.3	13.071	34.230	25.78	0.00	0.382											
188.4	12.989	34.151	25.76	0.00	0.382											

Cast Label : ODEX 3 STA 79 UP CAST 11-2-82 1920Z

Lat. 30.5753N Long. 148.5419W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Fluor V.	Beam Atten	410 nM	441 nM	465 nM	488 nM	520 nM	540 nM	560 nM	589 nM	625 nM	671 nM	% of surface Irradiance
8.8	21.509	34.944	24.32	0.00	0.405	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
5.8	21.501	34.942	24.32	0.00	0.403	87.99	88.67	87.92	87.24	77.02	73.84	67.41	49.12	20.77	10.83	
10.8	21.368	35.029	24.42	0.00	0.406	77.69	78.70	77.61	76.62	59.18	54.25	44.98	23.59	3.74	0.95	
15.7	21.395	35.133	24.49	0.00	0.406	68.71	78.22	68.71	67.42	46.22	40.77	31.01	12.63	0.87		
20.7	21.387	35.132	24.49	0.00	0.407	68.13	62.16	68.70	59.34	35.98	30.44	21.26	6.22			
25.6	21.388	35.132	24.49	0.00	0.406	52.29	54.79	53.40	52.18	28.89	22.91	14.71	3.32			
30.6	21.375	35.132	24.50	0.00	0.407	45.71	48.33	47.01	45.74	22.02	17.30	10.05	1.83			
35.7	21.374	35.145	24.51	0.00	0.406	39.75	42.58	41.36	40.19	17.15	12.92	6.56	0.99			
40.6	21.367	35.159	24.52	0.00	0.405	34.43	37.47	36.40	35.38	13.64	9.74	4.63	0.60			
45.6	21.277	35.234	24.60	0.00	0.405	29.67	32.72	31.81	30.96	10.88	7.22	3.21	0.36			
50.6	20.719	35.089	24.64	0.00	0.406	25.05	28.08	27.47	26.78	8.43	5.24	2.18				
55.6	20.080	34.975	24.72	0.00	0.408	20.45	23.49	23.26	22.81	6.30	3.98	1.52				
60.4	19.677	34.949	24.81	0.00	0.413	16.29	19.25	19.40	19.21	4.74	2.90	1.05				
65.5	19.096	34.795	24.84	0.00	0.406	12.88	15.65	16.84	16.07	3.61	2.13	0.72				
70.4	18.976	34.854	24.92	0.00	0.405	9.23	12.68	13.30	13.44	2.78	1.59	0.58				
75.4	18.714	34.834	24.97	0.00	0.404	7.05	10.24	10.97	11.25	2.13	1.17	0.34				
80.3	18.601	34.812	24.98	0.00	0.397	5.35	8.25	9.04	9.43	1.64	0.88					
85.3	18.426	34.887	25.02	0.00	0.399	4.18	6.37	7.65	7.85	1.29	0.66					
90.4	18.260	34.796	25.05	0.00	0.397	3.10	4.98	5.94	6.51	0.99	0.49					
95.3	17.991	34.803	25.13	0.00	0.397	2.48	4.05	4.90	5.37	0.79	0.38					
100.2	17.868	34.788	25.08	0.00	0.397	1.79	3.18	3.95	4.40	0.60						
105.3	17.606	34.679	25.13	0.00	0.396	1.32	2.49	3.17	3.58	0.46						
110.3	17.516	34.706	25.17	0.00	0.394	0.97	1.93	2.53	2.88	0.35						
115.3	17.393	34.598	25.11	0.00	0.391	0.71	1.49	2.00	2.31	0.26						
120.2	17.612	34.719	25.15	0.00	0.398	0.52	1.15	1.59	1.85							
125.1	17.491	34.776	25.23	0.00	0.389	0.39	0.91	1.28	1.49							
130.0	16.994	34.758	25.33	0.00	0.386		0.72	1.05	1.23							
135.0	16.743	34.661	25.32	0.00	0.385		0.59	0.88	1.04							
140.0	16.559	34.609	25.32	0.00	0.384		0.49	0.75	0.88							
146.6	16.012	34.618	25.45	0.00	0.383		0.40	0.63	0.74							
150.0	15.547	34.471	25.45	0.00	0.382		0.32	0.52	0.62							
154.9	15.189	34.398	25.46	0.00	0.381		0.25	0.42	0.51							
160.0	15.079	34.346	25.45	0.00	0.382		0.34	0.40								
164.9	14.898	34.308	25.47	0.00	0.381		0.27	0.32								
169.9	14.335	34.263	25.55	0.00	0.381		0.21	0.25								
174.8	14.154	34.233	25.56	0.00	0.380											
179.7	13.742	34.176	25.61	0.00	0.379											
184.7	13.401	34.155	25.66	0.00	0.378											
189.8	12.988	34.105	25.70	0.00	0.378											

Cast Label : ODEX 3 STA 84 DN CAST 11-3-82 20182

Lat. 32.5948N Long. 148.4784W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Fluor V.	Beam Atten	410 nm	441 nm	465 nm	488 nm	528 nm	548 nm	560 nm	589 nm	625 nm	671 nm	% of surface Irradiance
-0.3	28.164	28.647	19.88	0.00	0.336	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
4.9	28.823	35.134	24.65	0.00	0.415	90.29	89.64	89.58	90.13	75.45	72.61	66.05	45.82	16.90	0.00	0.00
9.7	28.822	35.095	24.62	0.00	0.412	77.52	81.27	81.52	81.58	63.84	58.00	48.69	25.21	3.84	0.09	0.00
14.9	28.824	35.087	24.61	0.00	0.411	71.10	73.71	73.65	73.57	48.50	42.81	32.37	11.84	0.67	0.00	0.00
19.7	28.818	35.093	24.62	0.00	0.412	59.97	65.47	65.96	66.18	39.84	33.93	23.65	6.72	0.17	0.00	0.00
24.6	28.818	35.087	24.61	0.00	0.411	54.73	59.50	59.70	59.48	31.10	25.21	16.80	3.28	0.00	0.00	0.00
29.6	28.818	35.086	24.61	0.00	0.411	47.19	52.81	53.44	53.54	25.10	19.67	11.50	1.78	0.00	0.00	0.00
34.7	28.818	35.087	24.61	0.00	0.410	41.99	47.37	47.79	47.66	19.84	14.95	7.82	1.00	0.00	0.00	0.00
39.6	28.818	35.086	24.61	0.00	0.411	36.07	41.52	42.00	41.83	15.55	11.24	5.17	0.56	0.00	0.00	0.00
44.5	28.817	35.088	24.61	0.00	0.411	38.94	36.11	36.50	36.29	12.18	8.22	3.56	0.33	0.00	0.00	0.00
49.7	28.816	35.087	24.61	0.00	0.410	26.26	31.17	31.53	31.41	9.41	5.84	2.39	0.20	0.00	0.00	0.00
54.5	28.807	35.092	24.62	0.00	0.410	21.96	26.59	27.09	27.86	7.35	4.35	1.65	0.00	0.00	0.00	0.00
59.4	28.785	35.089	24.62	0.00	0.414	18.63	22.88	23.20	23.13	5.49	3.16	1.11	0.00	0.00	0.00	0.00
64.4	28.532	35.090	24.69	0.00	0.415	15.31	19.84	19.49	19.49	4.84	2.30	0.76	0.00	0.00	0.00	0.00
69.4	19.011	34.994	24.95	0.00	0.417	11.55	15.26	15.98	16.19	3.04	1.66	0.52	0.00	0.00	0.00	0.00
74.4	18.535	34.835	25.02	0.00	0.415	8.21	11.98	12.92	13.28	2.30	1.21	0.36	0.00	0.00	0.00	0.00
79.4	18.074	34.779	25.09	0.00	0.414	6.82	9.32	10.33	10.80	1.72	0.87	0.00	0.00	0.00	0.00	0.00
84.3	17.986	34.882	25.15	0.00	0.410	4.31	7.00	8.14	8.70	1.30	0.63	0.00	0.00	0.00	0.00	0.00
89.3	17.751	34.758	25.15	0.00	0.409	3.21	5.23	6.60	6.94	0.98	0.45	0.00	0.00	0.00	0.00	0.00
94.4	17.548	34.785	25.16	0.00	0.408	2.31	3.96	4.84	5.51	0.72	0.32	0.00	0.00	0.00	0.00	0.00
99.4	17.488	34.715	25.18	0.00	0.407	1.78	3.07	3.86	4.37	0.55	0.00	0.00	0.00	0.00	0.00	0.00
104.3	17.195	34.666	25.21	0.00	0.406	1.24	2.34	3.02	3.48	0.42	0.00	0.00	0.00	0.00	0.00	0.00
109.1	17.022	34.662	25.25	0.00	0.405	0.91	1.79	2.37	2.78	0.32	0.00	0.00	0.00	0.00	0.00	0.00
114.3	16.912	34.647	25.27	0.00	0.402	0.66	1.38	1.87	2.23	0.24	0.00	0.00	0.00	0.00	0.00	0.00
119.1	16.832	34.648	25.28	0.00	0.400	0.49	1.06	1.49	1.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00
124.2	16.765	34.620	25.28	0.00	0.397	0.00	0.82	1.18	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00
129.0	16.691	34.635	25.31	0.00	0.397	0.00	0.64	0.95	1.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00
134.1	16.466	34.684	25.34	0.00	0.395	0.00	0.51	0.77	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00
138.9	16.385	34.591	25.35	0.00	0.394	0.00	0.40	0.63	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00
143.8	16.337	34.598	25.36	0.00	0.393	0.00	0.32	0.51	0.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00
149.8	16.234	34.546	25.35	0.00	0.392	0.00	0.26	0.42	0.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00
154.0	15.772	34.548	25.45	0.00	0.389	0.00	0.35	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
159.0	15.426	34.433	25.44	0.00	0.385	0.00	0.29	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
163.8	15.282	34.445	25.48	0.00	0.384	0.00	0.24	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
168.9	15.204	34.414	25.48	0.00	0.384	0.00	0.21	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
173.8	14.914	34.384	25.46	0.00	0.383	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
178.9	14.543	34.332	25.56	0.00	0.383	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
183.8	14.856	34.310	25.64	0.00	0.382	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

PREMATURE END OF DATA FILE

Cast Label : ODEX 3 STA 105 DN CAST 11-5-82 2003Z

Lat. 32.4650N Long. 141.2380W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Fluor V.	Beam Atten	410 nM	441 nM	465 nM	488 nM	520 nM	548 nM	560 nM	589 nM	625 nM	671 nM	% of surface Irradiance
0.9	20.982	21.854	14.52	0.00	0.415	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
5.8	20.980	23.956	16.11	0.00	0.414	98.78	89.30	87.79	86.65	73.83	70.48	63.41	44.26	17.38	8.47	
10.7	20.979	24.174	16.28	0.00	0.414	78.15	78.74	76.83	75.09	55.92	58.46	40.72	20.03	2.65	0.57	
15.8	20.978	24.186	16.23	0.00	0.415	63.95	66.25	65.72	65.86	44.01	38.65	28.96	10.98	0.62		
20.8	20.974	24.525	16.55	0.00	0.415	54.17	57.28	56.94	56.38	32.91	27.62	18.55	4.86			
25.7	20.976	24.839	16.78	0.00	0.416	47.07	50.29	49.65	48.85	25.58	20.61	12.82	2.62			
30.7	20.975	25.383	17.20	0.00	0.415	41.81	44.11	43.28	42.33	19.34	14.91	8.45	1.38			
35.7	20.972	24.943	16.86	0.00	0.415	35.65	38.79	37.86	36.81	14.87	11.02	5.31	0.68			
40.6	20.970	25.727	17.46	0.00	0.415	30.62	33.83	33.21	32.39	12.84	8.67	3.89	0.44			
45.6	20.971	26.241	17.85	0.00	0.415	27.06	30.43	29.75	28.98	9.42	6.21	2.56	0.24			
50.6	20.972	25.926	17.61	0.00	0.415	23.47	26.94	26.43	25.79	7.64	4.69	1.84				
55.6	20.974	26.296	17.89	0.00	0.415	19.84	23.27	23.02	22.56	6.87	3.55	1.28				
60.5	20.972	26.157	17.78	0.00	0.415	17.04	20.08	19.74	19.22	4.37	2.55	0.85				
65.4	20.961	25.957	17.64	0.00	0.414	14.13	16.84	16.68	16.17	3.28	1.86	0.57				
70.4	19.788	27.200	18.90	0.00	0.428	11.30	13.75	13.73	13.52	2.47	1.34	0.37				
75.4	18.258	28.119	19.95	0.00	0.428	7.88	10.76	11.15	11.22	1.92	1.02	0.26				
80.4	17.687	27.861	19.89	0.00	0.420	5.69	8.34	8.93	9.13	1.46	0.75					
85.4	17.195	28.107	20.19	0.00	0.419	4.84	6.32	6.98	7.28	1.07	0.53					
90.3	16.962	27.838	20.03	0.00	0.418	2.87	4.49	5.58	5.69	0.79	0.38					
95.2	16.724	27.682	19.91	0.00	0.414	2.03	3.35	4.00	4.41	0.59	0.27					
100.3	16.563	27.061	19.53	0.00	0.407	1.45	2.53	3.12	3.42	0.44						
105.3	16.354	26.384	19.00	0.00	0.404	1.03	1.91	2.42	2.69	0.32						
110.2	16.259	26.895	18.86	0.00	0.397	0.74	1.47	1.91	2.14	0.24						
115.2	16.717	25.234	18.18	0.00	0.397	0.54	1.13	1.52	1.72							
120.2	16.874	24.571	17.56	0.00	0.397	0.48	0.90	1.23	1.40							
125.1	16.863	23.792	16.96	0.00	0.394		0.72	1.01	1.15							
130.0	16.793	23.612	16.84	0.00	0.394		0.58	0.83	0.95							
135.0	16.665	23.326	16.65	0.00	0.391		0.47	0.68	0.78							
140.0	16.376	23.336	16.72	0.00	0.389		0.38	0.57	0.65							
145.0	16.858	23.162	16.65	0.00	0.388		0.32	0.48	0.55							
149.9	15.925	22.815	16.42	0.00	0.386		0.26	0.41	0.46							
154.9	15.770	22.419	16.14	0.00	0.385		0.22	0.35	0.40							
160.0	15.563	22.517	16.26	0.00	0.385			0.30	0.34							
164.9	15.315	22.488	16.29	0.00	0.385			0.25	0.29							
169.8	14.758	22.383	16.32	0.00	0.384			0.22	0.24							
174.8	14.305	22.598	16.56	0.00	0.383			0.19	0.21							
179.7	13.996	22.128	16.26	0.00	0.383			0.16								
184.8	13.942	21.726	15.97	0.00	0.382											
189.8	13.315	21.648	16.02	0.00	0.382											

Cast Label : ODEX 3 STA 134 DN CAST 11-8-82 2200Z

Lat. 32.5605N Long. 142.1583W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Fluor V.	Beam Atten	410 nM	441 nM	465 nM	488 nM	520 nM	540 nM	560 nM	589 nM	625 nM	671 nM	% of surface Irradiance
0.5	19.462	34.514	24.53	0.00	0.414	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
5.2	19.461	34.513	24.53	0.00	0.414	82.28	84.07	85.05	85.60	76.48	73.83	67.79	48.16	19.66	9.59	
10.1	19.456	34.514	24.54	0.00	0.414	74.19	75.85	74.38	73.39	56.37	51.53	42.57	21.63	3.34	0.78	
15.2	19.458	34.522	24.54	0.00	0.414	61.07	64.22	63.93	63.84	42.70	37.13	27.66	10.04	0.54		
20.1	19.330	34.544	24.59	0.00	0.414	54.53	56.39	55.52	54.35	31.88	26.68	18.17	4.97			
25.0	19.177	34.528	24.62	0.00	0.416	45.88	48.96	48.27	47.16	24.74	19.85	12.41	2.49			
30.2	19.231	34.548	24.62	0.00	0.416	39.23	42.79	42.13	41.04	19.13	14.68	8.44	1.31			
35.1	19.270	34.568	24.62	0.00	0.415	33.77	37.46	36.82	35.65	14.73	10.85	5.53	0.71			
40.1	19.334	34.590	24.63	0.00	0.416	28.82	32.48	31.91	30.80	11.23	7.90	3.52	0.37			
45.0	19.349	34.689	24.64	0.00	0.416	24.59	28.89	27.54	26.46	8.67	5.66	2.37	0.22			
50.0	19.033	34.533	24.66	0.00	0.419	20.23	23.77	23.45	22.65	6.69	4.05	1.61				
55.0	18.066	34.498	24.87	0.00	0.421	16.62	20.89	19.95	19.26	5.86	2.96	1.89				
60.0	16.563	33.763	24.67	0.00	0.428	13.08	16.45	16.68	16.19	3.70	2.12	0.72				
64.8	15.328	33.950	25.09	0.00	0.426	10.00	13.18	13.60	13.42	2.82	1.58	0.51				
69.9	14.964	33.768	25.03	0.00	0.424	6.85	10.39	11.02	11.03	2.07	1.11	0.33				
74.9	14.824	33.795	25.08	0.00	0.422	4.97	8.18	8.85	9.02	1.57	0.88	0.23				
79.8	14.770	33.769	25.08	0.00	0.420	3.55	6.25	7.05	7.31	1.17	0.58					
84.9	14.731	33.759	25.08	0.00	0.420	2.53	4.46	5.56	5.84	0.86	0.41					
89.8	14.525	33.734	25.10	0.00	0.413	1.83	3.44	4.39	4.61	0.65	0.39					
94.8	14.416	33.755	25.14	0.00	0.411	1.29	2.57	3.28	3.61	0.49	0.22					
99.6	14.331	33.745	25.17	0.00	0.409	0.89	1.90	2.52	2.84	0.37						
104.8	14.239	33.748	25.17	0.00	0.408	0.62	1.41	1.94	2.24	0.28						
109.7	14.878	33.737	25.20	0.00	0.408	0.44	1.06	1.52	1.78	0.21						
114.6	13.993	33.751	25.23	0.00	0.395	0.32	0.83	1.22	1.44	0.16						
119.6	13.978	33.766	25.24	0.00	0.389		0.67	1.00	1.19							
124.6	13.930	33.773	25.26	0.00	0.386		0.55	0.84	1.00							
129.6	14.035	33.813	25.27	0.00	0.386		0.45	0.71	0.85							
134.5	14.280	33.919	25.30	0.00	0.387		0.37	0.60	0.72							
139.4	14.390	33.970	25.31	0.00	0.385		0.31	0.51	0.61							
144.5	14.861	33.970	25.38	0.00	0.383		0.25	0.43	0.52							
149.5	14.849	34.171	25.37	0.00	0.387		0.21	0.36	0.45							
154.5	15.101	34.256	25.38	0.00	0.388		0.17	0.30	0.38							
159.4	15.288	34.336	25.42	0.00	0.391			0.26	0.32							
164.4	15.071	34.343	25.45	0.00	0.398			0.21	0.27							
169.4	14.730	34.410	25.58	0.00	0.387			0.18	0.22							
174.3	13.317	34.254	25.75	0.00	0.385			0.15	0.19							
179.3	12.956	34.041	25.66	0.00	0.384				0.16							
184.2	12.929	34.032	25.66	0.00	0.384											
189.2	12.173	33.975	25.76	0.00	0.383											

Cast Label : ODEX 3 STA 134 UP CAST 11-8-82 2214Z

Lat. 32.5685N Long. 142.1583W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Fluor V.	Beam Atten	410 nM	441 nM	465 nM	488 nM	520 nM	540 nM	560 nM	589 nM	625 nM	671 nM	% of surface Irradiance
-8.2	19.448	32.541	23.03	0.00	0.670	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
4.8	19.475	34.510	24.53	0.00	0.413	91.13	89.65	87.32	85.76	72.24	68.96	62.38	43.88	17.37	8.43	
9.8	19.355	34.547	24.59	0.00	0.412	75.11	75.85	74.51	73.66	55.59	51.34	42.80	22.34	3.78	0.93	
14.9	19.385	34.552	24.60	0.00	0.412	61.24	65.51	64.58	63.63	43.11	37.75	28.45	18.81	0.63		
19.7	19.123	34.510	24.62	0.00	0.413	56.92	58.38	56.69	55.43	31.17	26.23	17.76	4.66			
24.6	19.214	34.545	24.62	0.00	0.420	47.85	51.28	49.94	48.64	24.75	19.87	12.39	2.48			
29.5	19.249	34.513	24.59	0.00	0.413	40.56	44.66	43.68	42.63	19.28	14.86	8.46	1.30			
34.6	19.353	34.586	24.62	0.00	0.414	36.15	39.71	38.44	37.11	14.73	10.89	5.68	0.71			
39.6	19.341	34.575	24.61	0.00	0.416	29.35	33.67	32.95	32.01	11.54	8.23	3.70	0.39			
44.6	19.056	34.703	24.78	0.00	0.417	24.48	28.70	28.23	27.49	8.98	6.88	2.52	0.23			
49.6	18.156	34.444	24.81	0.00	0.418	20.76	24.74	24.22	23.43	6.83	4.17	1.66	0.14			
54.6	16.589	34.794	25.47	0.00	0.424	16.59	20.54	20.39	19.86	5.25	3.86	1.12				
59.5	15.188	33.998	25.16	0.00	0.424	13.18	16.98	17.00	16.64	3.76	2.20	0.75				
64.4	15.801	33.785	25.04	0.00	0.422	9.98	13.48	13.89	13.81	2.82	1.58	0.50				
69.4	14.854	33.767	25.06	0.00	0.420	6.82	10.58	11.22	11.34	2.12	1.15	0.34				
74.4	14.786	33.756	25.06	0.00	0.420	4.92	8.21	9.00	9.26	1.58	0.83	0.23				
79.4	14.708	33.788	25.10	0.00	0.418	3.56	6.39	7.19	7.51	1.20	0.59					
84.4	14.542	33.744	25.11	0.00	0.415	2.53	4.56	5.67	6.01	0.88	0.42					
89.5	14.409	33.744	25.13	0.00	0.410	1.82	3.48	4.40	4.74	0.67	0.31					
94.2	14.378	33.750	25.15	0.00	0.409	1.29	2.62	3.34	3.70	0.49	0.22					
99.3	14.258	33.746	25.17	0.00	0.408	0.89	1.92	2.54	2.89	0.37						
104.3	14.116	33.764	25.21	0.00	0.406	0.61	1.43	1.96	2.27	0.27						
109.2	14.030	33.748	25.21	0.00	0.397	0.44	1.09	1.54	1.81	0.21						
114.3	13.979	33.748	25.23	0.00	0.392	0.33	0.86	1.25	1.47							
119.2	13.981	33.784	25.25	0.00	0.388		0.69	1.03	1.22							
124.2	13.971	33.757	25.24	0.00	0.385		0.57	0.86	1.02							
129.8	14.181	33.803	25.23	0.00	0.387		0.47	0.72	0.86							
134.1	14.470	33.927	25.26	0.00	0.386		0.39	0.61	0.73							
139.0	14.174	34.815	25.39	0.00	0.384		0.32	0.52	0.63							
143.8	14.165	33.924	25.32	0.00	0.383		0.27	0.44	0.53							
149.0	15.112	34.305	25.41	0.00	0.387		0.22	0.37	0.46							
154.0	15.244	34.294	25.38	0.00	0.389		0.18	0.32	0.39							
158.9	15.154	34.363	25.45	0.00	0.390			0.26	0.32							
163.9	14.896	34.361	25.50	0.00	0.389			0.21	0.27							
168.9	13.442	34.317	25.78	0.00	0.384			0.18	0.23							
173.8	12.956	34.037	25.66	0.00	0.384			0.15	0.19							
178.8	12.964	34.032	25.65	0.00	0.383				0.16							
183.9	12.439	34.152	25.85	0.00	0.383											
188.8	11.910	33.942	25.79	0.00	0.382											

Cast Label : ODEX 3 STA 167 DN CAST 11-12-82 23382

Lat. 33.4790N Long. 136.4680W

Z-ave M	Temp deg C	Sal. ppt	Dens. &-T	Fluor V.	Beam Atten	418 nm	441 nm	465 nm	488 nm	528 nm	548 nm	560 nm	589 nm	625 nm	671 nm
----- % of surface Irradiance -----															
-8.4	17.676	28.575	20.44	0.00	3.134	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
4.3	17.863	33.692	24.31	0.00	0.421	98.49	92.20	98.29	88.58	76.85	71.91	65.10	46.38	17.13	7.92
9.3	17.855	33.726	24.33	0.00	0.423	81.51	81.71	79.89	78.33	57.12	51.91	41.97	28.08	2.55	0.52
14.2	17.835	33.733	24.34	0.00	0.428	68.56	71.67	70.57	69.32	45.08	39.07	28.78	18.22	0.48	
19.2	17.824	33.715	24.33	0.00	0.420	62.05	65.00	63.25	61.35	34.33	28.23	18.75	4.60		
24.2	17.815	33.726	24.34	0.00	0.428	53.57	57.22	55.97	54.37	26.78	21.15	12.62	2.34		
29.2	17.814	33.728	24.34	0.00	0.421	44.23	49.46	49.11	48.09	21.32	16.19	8.62	1.27		
34.2	17.838	33.748	24.36	0.00	0.428	40.56	44.87	43.88	42.21	16.22	11.26	5.35	0.67		
39.1	17.897	33.761	24.35	0.00	0.421	34.35	38.61	37.77	36.46	12.50	7.99	3.56	0.38		
44.1	17.987	33.845	24.39	0.00	0.419	28.82	32.37	31.96	30.98	9.42	5.95	2.46			
49.1	18.008	33.755	24.32	0.00	0.426	23.02	27.84	26.72	25.93	6.75	4.14	1.56			
54.0	16.336	33.707	24.68	0.00	0.428	16.68	21.75	21.84	21.41	5.02	2.95	1.03			
59.0	15.537	33.429	24.65	0.00	0.430	12.24	16.99	17.51	17.37	3.70	2.09	0.68			
63.9	15.099	33.352	24.68	0.00	0.427	8.78	13.02	13.69	13.81	2.65	1.44	0.43			
68.9	14.766	33.438	24.81	0.00	0.424	6.15	9.16	10.71	10.78	1.95	1.02				
73.9	14.588	33.378	24.81	0.00	0.422	4.43	6.94	7.93	8.34	1.45	0.73				
78.9	14.482	33.355	24.83	0.00	0.422	3.02	5.10	6.87	6.47	1.04	0.52				
83.9	14.358	33.371	24.86	0.00	0.428	2.11	3.78	4.64	5.05	0.77					
88.8	14.345	33.368	24.86	0.00	0.418	1.46	2.79	3.55	3.95	0.55					
93.8	14.328	33.378	24.87	0.00	0.417	1.02	2.07	2.73	3.09	0.41					
98.8	14.256	33.378	24.88	0.00	0.416	0.71	1.53	2.09	2.41						
103.7	14.204	33.458	24.95	0.00	0.408				1.13	1.60	1.88				
108.8	14.196	33.473	24.97	0.00	0.405				0.85	1.25	1.47				
113.7	14.212	33.528	25.00	0.00	0.404				0.64	0.97	1.16				
118.5	14.198	33.493	24.98	0.00	0.401				0.49	0.77	0.92				
123.5	14.134	33.522	25.02	0.00	0.397					0.61	0.73				
128.6	14.162	33.577	25.06	0.00	0.397					0.49	0.59				
133.5	14.042	33.594	25.09	0.00	0.397					0.39	0.47				
138.4	13.983	33.608	25.11	0.00	0.394					0.32	0.39				
143.4	13.919	33.627	25.15	0.00	0.390										
148.5	13.751	33.561	25.13	0.00	0.384										
153.6	13.699	33.576	25.15	0.00	0.383										
158.6	13.672	33.626	25.20	0.00	0.383										
163.4	13.474	33.533	25.16	0.00	0.382										
168.3	13.160	33.554	25.24	0.00	0.382										
173.4	13.015	33.610	25.32	0.00	0.382										
178.4	12.851	33.604	25.34	0.00	0.383										
183.3	12.756	33.605	25.36	0.00	0.382										
188.4	13.034	33.716	25.39	0.00	0.383										

Cast Label : ODEX 3 STA 170 DN CAST 11-15-82 19262

Lat. 34.4828N Long. 127.1375W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Fluor V.	Beam Atten	410 nM	441 nM	465 nM	488 nM	520 nM	540 nM	560 nM	589 nM	625 nM	671 nM	% of surface Irradiance
1.0	16.999	33.181	24.12	0.00	0.429	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
5.9	16.979	33.184	24.13	0.00	0.430	83.18	85.05	85.79	85.81	75.26	71.75	64.61	44.79	16.89	7.55	
10.7	16.977	33.182	24.13	0.00	0.430	65.78	70.88	73.10	74.05	58.70	54.13	44.72	22.67	3.27	0.71	
15.7	16.976	33.183	24.13	0.00	0.430	55.22	60.91	63.17	63.99	44.63	39.28	29.48	10.99	0.62		
20.8	16.974	33.181	24.13	0.00	0.430	45.79	52.21	54.36	54.94	33.84	28.34	19.22	5.11			
25.7	16.977	33.183	24.13	0.00	0.430	35.80	42.58	45.55	46.93	26.01	21.21	13.27	2.65			
30.7	16.988	33.184	24.13	0.00	0.430	29.35	35.83	38.54	39.73	19.62	15.32	8.51	1.37			
35.7	16.988	33.186	24.13	0.00	0.434	23.19	29.49	32.18	33.46	15.81	11.32	5.57	0.75			
40.6	16.998	33.222	24.15	0.00	0.434	18.40	24.84	26.59	27.83	11.15	7.88	3.56	0.48			
45.6	17.041	33.223	24.14	0.00	0.433	14.14	19.03	21.45	22.73	8.27	5.36	2.31	0.23			
50.6	16.417	33.170	24.25	0.00	0.458	9.69	14.53	16.78	18.07	5.84	3.76	1.50				
55.6	15.428	33.389	24.64	0.00	0.464	6.34	10.39	12.60	13.97	4.14	2.63	0.98				
60.4	14.565	33.158	24.65	0.00	0.453	3.85	6.79	9.10	10.49	2.93	1.81	0.64				
65.5	14.148	33.163	24.74	0.00	0.454	2.24	4.32	6.39	7.70	2.00	1.20	0.40				
70.4	14.077	33.183	24.77	0.00	0.445	1.39	2.94	4.33	5.58	1.44	0.84	0.26				
75.4	13.210	32.985	24.79	0.00	0.452	0.85	1.99	3.12	4.04	1.04	0.60					
80.4	12.526	33.861	24.99	0.00	0.434	0.50	1.32	2.21	2.95	0.74	0.41					
85.4	12.325	32.999	24.98	0.00	0.431		0.88	1.58	2.19	0.52						
90.3	12.331	32.989	24.97	0.00	0.421		0.61	1.17	1.65	0.37						
95.4	12.267	33.073	25.05	0.00	0.410		0.43	0.88	1.28	0.27						
100.3	11.923	33.034	25.08	0.00	0.405		0.32	0.69	1.01							
105.2	11.638	33.130	25.21	0.00	0.402		0.24	0.54	0.81							
110.3	11.691	33.088	25.16	0.00	0.397			0.43	0.65							
115.3	11.575	33.088	25.19	0.00	0.397			0.34	0.53							
120.2	11.115	33.079	25.26	0.00	0.397			0.28	0.43							
125.1	11.091	33.083	25.27	0.00	0.395			0.22	0.35							
130.1	10.893	33.132	25.34	0.00	0.394				0.29							
134.9	10.615	33.282	25.45	0.00	0.394				0.24							
140.1	10.499	33.236	25.49	0.00	0.393											
145.0	10.325	33.325	25.59	0.00	0.391											
150.1	10.193	33.443	25.71	0.00	0.391											
154.9	10.113	33.503	25.77	0.00	0.391											
160.0	10.077	33.507	25.78	0.00	0.391											
164.9	9.969	33.581	25.85	0.00	0.391											
169.8	10.305	33.250	25.54	0.00	0.391											
174.8	9.784	33.681	25.96	0.00	0.392											
179.8	9.639	33.737	26.03	0.00	0.392											
184.8	9.536	33.743	26.05	0.00	0.392											
189.8	9.391	33.775	26.10	0.00	0.390											

Cast Label : ODEX 3 STA 178 UP CAST 11-15-82 1935Z

Lat. 34.4828N Long. 127.1375W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Fluor V.	Beam Atten	410 nM	441 nM	465 nM	488 nM	520 nM	540 nM	560 nM	589 nM	625 nM	671 nM	% of surface Irradiance
-8.1	17.817	31.671	22.96	0.00	0.525	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
4.8	17.803	33.182	24.12	0.00	0.426	77.44	79.81	81.59	83.95	73.18	71.78	65.97	45.84	18.18	8.46	
9.7	16.974	33.185	24.13	0.00	0.428	66.29	67.85	69.01	70.60	53.28	50.00	41.58	28.98	3.36	0.78	
14.8	16.971	33.183	24.13	0.00	0.429	52.11	55.87	58.28	59.88	48.78	36.53	27.65	18.38	0.63		
19.7	16.967	33.184	24.13	0.00	0.428	41.71	46.24	49.00	50.97	30.95	26.76	18.55	5.18			
24.6	16.968	33.179	24.13	0.00	0.428	33.78	38.84	41.68	43.43	23.20	19.08	11.97	2.34			
29.6	16.971	33.177	24.13	0.00	0.428	26.99	32.14	35.00	36.76	17.75	14.14	8.19	1.25			
34.7	16.973	33.167	24.12	0.00	0.428	21.68	26.65	29.32	30.97	13.34	10.28	5.84	0.64			
39.8	16.976	33.159	24.11	0.00	0.427	17.23	21.83	24.31	25.82	9.97	7.11	3.25	0.34			
44.6	16.988	33.165	24.11	0.00	0.427	13.50	17.63	19.85	21.22	7.57	5.01	2.19	0.28			
49.6	16.424	33.544	24.53	0.00	0.437	10.20	13.72	15.76	17.04	5.51	3.51	1.41				
54.7	14.862	33.353	24.73	0.00	0.464	6.34	9.93	11.98	13.29	3.81	2.45	0.92				
59.4	14.335	33.214	24.74	0.00	0.452	3.87	6.81	8.65	10.03	2.71	1.71	0.59				
64.4	14.247	33.013	24.68	0.00	0.447	2.27	4.19	6.09	7.34	1.89	1.16	0.38				
69.5	13.369	33.127	24.87	0.00	0.444	1.35	2.77	4.07	5.27	1.32	0.79	0.24				
74.4	12.938	33.013	24.87	0.00	0.444	0.81	1.86	2.98	3.77	0.95	0.56					
79.3	12.389	32.959	24.93	0.00	0.432	0.47	1.21	2.02	2.73	0.65	0.37					
84.4	12.334	32.945	24.93	0.00	0.425		0.81	1.45	2.02	0.46	0.25					
89.3	12.483	32.987	24.95	0.00	0.414		0.57	1.08	1.54	0.33						
94.2	12.899	33.097	25.10	0.00	0.488		0.41	0.82	1.28	0.24						
99.3	11.882	33.050	25.11	0.00	0.483		0.30	0.64	0.94	0.18						
104.2	11.637	33.018	25.12	0.00	0.399		0.23	0.50	0.75							
109.3	11.781	33.120	25.19	0.00	0.397			0.40	0.61							
114.1	11.578	33.105	25.20	0.00	0.397			0.32	0.49							
119.8	11.133	33.068	25.25	0.00	0.397			0.26	0.40							
124.2	11.232	33.138	25.29	0.00	0.394			0.21	0.33							
129.1	10.941	33.094	25.31	0.00	0.392			0.17	0.27							
134.2	10.602	33.203	25.45	0.00	0.393				0.22							
139.8	10.526	33.204	25.46	0.00	0.393											
143.8	10.488	33.293	25.55	0.00	0.391											
149.8	10.212	33.397	25.67	0.00	0.390											
154.1	10.120	33.478	25.74	0.00	0.391											
158.9	10.056	33.513	25.78	0.00	0.392											
163.8	9.978	33.558	25.83	0.00	0.392											
168.9	9.894	33.620	25.90	0.00	0.392											
173.9	9.767	33.678	25.96	0.00	0.391											
178.8	9.685	33.738	26.04	0.00	0.392											
183.7	9.511	33.750	26.06	0.00	0.391											
188.8	9.357	33.786	26.11	0.00	0.392											

Cast Label : ODEX 3 STA 176 UP CAST 11-16-82 2328Z

Lat. 34.5865N Long. 123.3559W

Z-ave	Temp	Sal.	Dens.	Fluor	Beam	410 nm	441 nm	465 nm	488 nm	520 nm	540 nm	560 nm	589 nm	625 nm	671 nm
M	deg C	ppt	&T	V.	Atten	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
1.6	14.897	33.885	24.52	0.00	0.557	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
6.2	14.896	33.896	24.53	0.00	0.555	38.92	49.02	57.45	65.83	70.32	73.34	73.73	58.13	22.35	11.02
11.1	14.859	33.181	24.54	0.00	0.556	20.88	29.17	36.41	43.84	43.36	44.20	48.58	22.11	2.93	
16.3	14.820	33.108	24.55	0.00	0.566	10.64	17.33	23.82	28.37	26.72	26.51	21.45	8.24		
21.1	14.749	33.154	24.61	0.00	0.582	5.48	9.25	14.04	18.04	16.38	14.99	11.41	3.47		
26.2	14.673	33.198	24.66	0.00	0.658	2.80	5.17	8.04	10.88	9.72	9.17	6.59	1.60		
31.2	14.892	33.283	24.67	0.00	0.649	1.31	2.62	4.45	6.38	5.74	5.41	3.68			
36.1	14.180	33.407	24.92	0.00	0.559		1.37	2.54	3.84	3.45	3.24	2.69			
41.1	13.216	33.896	24.88	0.00	0.478		0.79	1.57	2.48	2.13	1.97	1.18			
46.1	13.320	33.110	24.87	0.00	0.457		0.58	1.86	1.71	1.38	1.23				
51.0	11.790	33.040	25.11	0.00	0.431			0.75	1.24	0.93	0.83				
56.1	11.719	33.061	25.14	0.00	0.421			0.56	0.94	0.65					
61.0	11.351	33.037	25.19	0.00	0.413			0.42	0.72						
65.9	11.032	33.045	25.25	0.00	0.409				0.58						
70.9	10.886	33.041	25.29	0.00	0.404					0.47					
75.9	10.763	33.056	25.31	0.00	0.403										
80.8	10.747	33.056	25.31	0.00	0.408										
85.8	10.420	33.105	25.48	0.00	0.397										
90.8	10.298	33.115	25.43	0.00	0.397										
95.9	10.293	33.153	25.46	0.00	0.395										
100.7	10.471	33.468	25.68	0.00	0.397										
105.8	9.936	33.749	25.99	0.00	0.397										
110.8	9.615	33.454	25.81	0.00	0.395										
115.7	9.381	33.457	25.85	0.00	0.392										
120.8	9.652	33.548	25.88	0.00	0.394										
125.5	9.689	33.648	25.95	0.00	0.395										
130.6	9.399	33.737	26.07	0.00	0.395										
135.6	9.308	33.736	26.08	0.00	0.393										

PREMATURE END OF DATA FILE

Cast Label : ODEX 3 STA 182 UP CAST 11-17-82 28262

Lat. 35.5353N Long. 121.3916W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Fluor V.	Beam Atten	418 nM	441 nM	465 nM	488 nM	520 nM	540 nM	560 nM	589 nM	625 nM	671 nM	% of surface Irradiance
-8.4	15.890	28.138	20.50	0.00	0.741	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
4.3	15.816	33.383	24.55	0.00	0.549	62.25	67.98	73.19	77.89	74.03	73.27	68.76	51.47	22.37	10.98	
9.3	15.758	33.379	24.56	0.00	0.557	38.69	45.42	52.81	58.30	53.60	52.22	45.79	25.59	4.39	1.14	
14.2	15.745	33.372	24.56	0.00	0.556	21.98	29.79	37.28	43.06	38.18	36.76	30.22	12.71	0.94		
19.3	15.733	33.373	24.56	0.00	0.551	12.51	18.89	25.47	38.83	26.38	25.07	18.47	5.86			
24.2	15.725	33.371	24.56	0.00	0.539	6.83	18.78	16.98	21.46	17.74	15.76	11.84	2.76			
29.2	15.721	33.378	24.56	0.00	0.534	3.87	6.57	18.62	14.66	11.20	10.19	6.85	1.37			
34.2	15.714	33.367	24.56	0.00	0.530	2.17	4.05	7.10	9.95	7.51	6.73	4.23	0.69			
39.1	15.708	33.353	24.55	0.00	0.525	1.20	2.44	4.62	6.76	4.98	4.33	2.55				
44.1	15.248	33.390	24.68	0.00	0.507		1.48	3.01	4.59	3.19	2.78	1.54				
49.1	14.668	33.324	24.75	0.00	0.489		0.89	1.96	3.12	2.11	1.81	0.94				
54.0	14.523	33.312	24.78	0.00	0.479		0.55	1.30	2.13	1.40	1.19					
59.1	13.882	33.330	24.92	0.00	0.437			0.87	1.49	0.93	0.78					
63.9	13.647	33.294	24.94	0.00	0.442				0.61	1.86	0.63					
68.9	13.172	33.421	25.14	0.00	0.432					0.76						
73.8	12.818	33.335	25.14	0.00	0.425					0.55						
78.8	12.574	33.405	25.24	0.00	0.422											
83.8	12.268	33.410	25.31	0.00	0.414											
88.8	12.198	33.424	25.33	0.00	0.414											
93.7	12.044	33.429	25.36	0.00	0.413											
98.8	11.924	33.467	25.42	0.00	0.409											
103.8	11.678	33.514	25.50	0.00	0.408											
108.7	11.579	33.515	25.52	0.00	0.410											
113.8	11.481	33.561	25.57	0.00	0.416											
118.6	11.439	33.568	25.58	0.00	0.417											
123.7	11.348	33.523	25.57	0.00	0.415											
128.5	11.062	33.592	25.67	0.00	0.407											
127.9	11.040	33.594	25.68	0.00	0.406											

PREMATURE END OF DATA FILE

Cast Label : ODEX 3 STA 184 DN CAST 11-17-82 23392

Lat. 35.5328N Long. 121.3110W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Fluor V.	Beam Atten	410 nM	441 nM	465 nM	488 nM	520 nM	540 nM	560 nM	589 nM	625 nM	671 nM
0.0	15.788	33.367	24.54	0.00	0.547	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
4.8	15.779	33.369	24.55	0.00	0.547	60.17	68.82	73.95	76.83	73.60	71.26	65.10	47.41	18.95	8.96
9.7	15.683	33.376	24.57	0.00	0.555	35.45	41.93	52.84	55.30	50.58	46.81	40.71	22.34	3.76	
14.9	15.598	33.375	24.59	0.00	0.558	20.08	26.16	33.46	38.30	33.99	31.83	26.00	10.72		
19.7	15.498	33.385	24.62	0.00	0.571	10.61	15.33	21.41	25.73	22.08	20.27	15.58	4.99		
24.7	15.358	33.363	24.64	0.00	0.576	5.36	8.73	13.37	16.92	14.08	12.67	9.25	2.38		
29.7	15.304	33.359	24.64	0.00	0.586		4.92	8.25	10.96	8.82	7.80	5.40			
34.6	15.045	33.372	24.71	0.00	0.576			2.72	5.82	7.82	5.42	4.62	3.07		
39.5	14.976	33.357	24.71	0.00	0.576				3.09	4.47	3.34	2.77			
44.6	14.768	33.355	24.76	0.00	0.561				1.93	2.84	2.04				
49.6	14.493	33.356	24.82	0.00	0.559					1.81					
54.6	14.298	33.369	24.87	0.00	0.561										
59.4	14.119	33.341	24.88	0.00	0.551										
64.4	13.339	33.395	25.09	0.00	0.558										
69.5	13.155	33.366	25.10	0.00	0.539										
74.4	12.864	33.441	25.21	0.00	0.538										
79.4	12.819	33.399	25.19	0.00	0.519										
84.3	12.735	33.415	25.22	0.00	0.514										
89.2	12.626	33.447	25.27	0.00	0.523										
94.3	12.555	33.446	25.28	0.00	0.532										
99.3	12.499	33.450	25.29	0.00	0.531										

PREMATURE END OF DATA FILE

Cast Label : ODEX 3 STA 184 UP CAST 11-17-82 2352Z

Lat. 35.5328N Long. 121.3118W

Z-ave M	Temp deg C	Sal. ppt	Dens. &-T	Fluor V.	Beam Atten	410 nM	441 nM	465 nM	488 nM	520 nM	548 nM	589 nM	625 nM	671 nM
-0.4	-99.000	-999.000	-999.00	0.00	4.991	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
4.3	15.768	33.355	24.54	0.00	0.547	62.54	65.02	70.89	74.34	71.02	71.16	66.38	48.23	19.95
9.2	15.679	33.357	24.56	0.00	0.554	37.62	42.73	50.40	55.25	58.56	49.74	43.05	23.02	
14.1	15.569	33.343	24.57	0.00	0.551	21.76	27.03	34.83	40.07	35.27	34.03	27.48	11.12	
19.2	15.358	33.345	24.62	0.00	0.575	12.89	16.47	23.21	27.92	23.87	22.50	17.12		
24.2	15.275	33.373	24.66	0.00	0.577		9.58	14.97	18.85	15.52	14.54	18.38		
29.2	15.048	33.355	24.70	0.00	0.576			9.53	12.53	9.92	9.27			
34.2	14.986	33.337	24.70	0.00	0.575			6.89	8.26					
39.1	14.663	33.266	24.71	0.00	0.562									
44.1	14.479	33.324	24.79	0.00	0.559									
49.1	14.284	33.344	24.87	0.00	0.556									
54.8	13.965	33.349	24.92	0.00	0.534									
58.9	13.778	33.253	24.89	0.00	0.541									
64.1	13.215	33.317	25.05	0.00	0.539									
68.8	13.026	33.371	25.13	0.00	0.545									
73.9	12.848	33.393	25.18	0.00	0.534									
78.9	12.796	33.398	25.19	0.00	0.517									
83.8	12.722	33.402	25.21	0.00	0.515									
88.9	12.593	33.426	25.26	0.00	0.526									
93.8	12.544	33.439	25.28	0.00	0.536									
98.8	12.494	33.445	25.29	0.00	0.533									

PREMATURE END OF DATA FILE

Cast Label : ODEX 3 STA 7 DN CAST

Latitude: 35.1940N Longitude: 121.3000W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Beam Atten	Diffuse Attenuation (/M)										
					410 nM	441 nM	465 nM	488 nM	520 nM	540 nM	560 nM	589 nM	625 nM	671 nM	694 nM
		Clean water value->			0.017	0.015	0.016	0.020	0.048	0.055	0.071	0.107	0.244	0.460	0.600
3.9	50.667	95.663	56.68	0.614	0.135	0.109	0.089	0.076	0.085	0.087	0.100	0.162	0.350	0.494	0.571
8.7	15.200	33.391	24.69	0.612	0.155	0.126	0.102	0.088	0.092	0.092	0.103	0.162	0.351		
13.7	15.045	33.331	24.68	0.688	0.170	0.144	0.117	0.099	0.099	0.101	0.110	0.162			
18.7	14.756	33.404	24.80	0.686	0.172	0.149	0.123	0.106	0.105	0.106	0.113	0.158			
23.8	14.570	33.336	24.78	0.649	0.168	0.141	0.118	0.104	0.107	0.108	0.116	0.156			
28.7	13.893	33.344	24.93	0.564	0.156	0.125	0.104	0.094	0.101	0.102	0.113	0.154			
33.7	13.325	33.377	25.07	0.584	0.145	0.111	0.098	0.081	0.092	0.097	0.111	0.152			
38.7	12.726	33.455	25.25	0.457		0.098	0.079	0.071	0.084	0.089	0.106				
43.6	12.517	33.464	25.30	0.447		0.090	0.072	0.065	0.078	0.084	0.103				
48.5	12.298	33.493	25.37	0.446		0.086	0.067	0.061	0.075	0.080	0.102				
53.4	11.910	33.521	25.46	0.432		0.084	0.063	0.058	0.074	0.078	0.108				
58.5	11.783	33.500	25.47	0.424			0.060	0.056	0.074	0.077					
63.4	11.491	33.486	25.51	0.413			0.058	0.055	0.073	0.078					
68.5	11.253	33.548	25.60	0.411			0.055	0.054	0.076	0.079					
73.4	10.980	33.502	25.62	0.404			0.053	0.054	0.080	0.079					
78.4	10.763	35.368	27.11	0.400			0.050	0.054	0.083						
83.4	10.585	33.642	25.79	0.397			0.048	0.055							
88.4	10.275	33.695	25.89	0.390				0.056							
93.3	10.126	33.688	25.91	0.391				0.058							
98.3	10.056	33.684	25.92	0.388											
103.3	9.913	33.718	25.97	0.387											
108.2	9.842	33.737	26.00	0.386											
113.2	9.780	33.740	26.01	0.387											
118.2	9.658	33.737	26.03	0.389											
123.2	9.622	33.756	26.05	0.387											
128.1	9.596	33.740	26.04	0.388											
133.0	9.576	33.775	26.07	0.387											
138.0	9.468	33.798	26.11	0.387											
143.0	9.352	33.832	26.15	0.388											
148.0	9.230	33.901	26.22	0.384											
152.9	9.231	33.855	26.19	0.385											
158.0	9.156	33.937	26.26	0.385											
162.9	9.125	33.947	26.28	0.390											
167.9	9.032	33.956	26.30	0.384											
172.9	8.918	33.978	26.33	0.385											
177.9	8.832	33.967	26.34	0.388											
182.7	8.748	33.991	26.37	0.387											
187.8	8.634	34.010	26.40	0.389											
192.7	8.557	34.005	26.41	0.383											

Cast Label : ODEX 3 STA 7 UP CAST

Latitude: 35.194N Longitude: 121.300E

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Beam Atten	Diffuse Attenuation (/M)										
					410 nM	441 nM	465 nM	488 nM	520 nM	540 nM	560 nM	589 nM	625 nM	671 nM	694 nM
		Clean water value->		0.017	0.015	0.016	0.020	0.048	0.055	0.071	0.107	0.244	0.460	0.600	
3.8	50.652	95.604	56.65	0.600	0.138	0.111	0.091	0.078	0.066	0.089	0.102	0.163	0.347	0.488	0.565
8.7	15.118	33.399	24.71	0.617	0.157	0.128	0.104	0.089	0.092	0.093	0.103	0.161	0.346		
13.7	14.710	33.410	24.81	0.693	0.169	0.143	0.116	0.099	0.098	0.099	0.109	0.160			
18.6	14.341	33.572	25.02	0.655	0.171	0.145	0.120	0.103	0.103	0.105	0.113	0.159			
23.7	13.544	33.771	25.33	0.589	0.163	0.134	0.112	0.098	0.103	0.105	0.115	0.158			
28.7	13.099	33.483	25.20	0.511	0.150	0.116	0.096	0.087	0.096	0.099	0.111	0.155			
33.6	12.556	33.490	25.31	0.457	0.140	0.103	0.084	0.076	0.087	0.092	0.108	0.156			
38.6	12.441	33.444	25.30	0.444		0.093	0.075	0.068	0.080	0.085	0.103				
43.5	12.076	33.668	25.54	0.442		0.087	0.069	0.063	0.076	0.081	0.101				
48.5	11.917	33.505	25.45	0.433		0.082	0.065	0.060	0.074	0.077	0.100				
53.5	11.579	33.668	25.64	0.423		0.080	0.063	0.057	0.073	0.076	0.107				
58.5	11.464	33.589	25.53	0.413		0.076	0.059	0.056	0.072	0.075	0.113				
63.4	11.330	33.559	25.60	0.412			0.057	0.055	0.072	0.074					
68.5	11.215	33.585	25.64	0.408			0.055	0.054	0.073	0.073					
73.5	10.920	33.717	25.79	0.406			0.054	0.054	0.076	0.074					
78.4	10.695	33.664	25.79	0.397			0.052	0.055	0.080						
83.3	10.455	33.785	25.93	0.397			0.051	0.055							
88.4	10.250	33.723	25.92	0.393			0.050	0.057							
93.3	10.119	33.711	25.93	0.390			0.047	0.059							
98.3	10.029	33.735	25.96	0.390			0.046	0.063							
103.3	9.898	33.728	25.98	0.395											
108.2	9.813	33.763	26.02	0.387											
113.2	9.756	33.751	26.02	0.387											
118.2	9.644	33.780	26.06	0.389											
123.3	9.617	33.768	26.06	0.388											
128.1	9.575	33.797	26.09	0.389											
133.0	9.541	33.815	26.11	0.387											
138.0	9.433	33.848	26.15	0.387											
143.0	9.263	33.894	26.21	0.386											
148.0	9.228	33.874	26.20	0.389											
153.0	9.215	33.887	26.22	0.384											
158.0	9.133	33.947	26.28	0.387											
162.9	9.080	33.982	26.31	0.388											
167.8	9.934	34.018	26.36	0.387											
172.8	8.874	33.989	26.35	0.387											
177.8	8.772	33.977	26.36	0.384											
182.8	8.665	34.011	26.40	0.382											
187.8	8.545	34.054	26.45	0.386											
192.8	8.514	34.023	26.43	0.385											

Cast Label : ODEX 3 STA 9 10-12-82 23142 DN CAST

Latitude: 35.1918N Longitude: 121.0680W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Beam Atten	Diffuse Attenuation (<math>\text{m}^{-1}</math>)										
					410 nM	441 nM	465 nM	488 nM	520 nM	540 nM	560 nM	589 nM	625 nM	671 nM	694 nM
		Clean water value->		0.017	0.015	0.016	0.020	0.048	0.055	0.071	0.107	0.244	0.468	0.608	
3.8	50.747	96.391	57.13	0.628	0.153	0.133	0.112	0.098	0.103	0.105	0.128	0.188	0.397	0.543	0.613
8.7	15.157	33.436	24.73	0.646	0.167	0.144	0.120	0.105	0.108	0.109	0.122	0.187	0.384		
13.6	14.983	33.472	24.88	0.655	0.174	0.154	0.130	0.112	0.114	0.116	0.126	0.184			
18.8	14.619	33.498	24.89	0.665	0.171	0.155	0.132	0.115	0.117	0.118	0.127	0.177			
23.7	14.414	33.464	24.92	0.651	0.166	0.145	0.125	0.112	0.114	0.116	0.125	0.178			
28.8	13.784	33.406	25.02	0.581	0.161	0.132	0.112	0.102	0.108	0.111	0.121	0.168			
33.5	12.626	33.372	25.21	0.485		0.122	0.101	0.091	0.100	0.106	0.118				
38.6	12.967	33.366	25.14	0.510		0.114	0.092	0.082	0.093	0.100	0.112				
43.5	12.883	33.438	25.22	0.496		0.110	0.085	0.076	0.088	0.095	0.108				
48.7	12.498	33.478	25.31	0.471		0.105	0.079	0.070	0.083	0.093	0.107				
53.5	12.156	33.502	25.40	0.448			0.073	0.066	0.080	0.093	0.108				
58.4	11.766	33.518	25.48	0.426			0.069	0.063	0.080	0.093					
63.4	11.594	33.563	25.55	0.467			0.067	0.062	0.079						
68.6	11.218	33.614	25.66	0.438			0.064	0.060	0.075						
73.4	11.136	33.591	25.66	0.418			0.063	0.059	0.073						
78.4	11.128	33.586	25.65	0.415				0.059							
83.4	11.097	33.601	25.67	0.419				0.065							
88.4	11.048	33.612	25.69	0.425											
93.3	11.000	33.631	25.71	0.428											
98.2	10.904	33.648	25.74	0.418											
103.3	10.661	33.744	25.86	0.476											
108.3	10.636	33.712	25.84	0.476											
113.2	10.687	33.719	25.85	0.459											
118.3	10.521	33.736	25.88	0.459											
123.3	10.364	33.786	25.95	0.489											
128.1	10.307	33.786	25.95	0.479											
133.1	10.280	33.789	25.96	0.502											
138.1	10.167	33.834	26.02	0.531											
142.9	10.098	33.838	26.03	0.547											
148.0	10.022	33.858	26.06	0.550											
153.0	9.891	33.915	26.13	0.540											
158.0	9.825	33.986	26.13	0.540											
162.8	9.698	33.942	26.18	0.529											
167.8	9.676	33.939	26.18	0.519											
172.9	9.648	33.945	26.19	0.525											
177.8	9.599	33.964	26.21	0.516											
182.7	9.562	33.977	26.23	0.504											
187.8	9.511	33.988	26.25	0.502											
192.8	9.389	34.022	26.29	0.479											

Cast Label : ODEX 3 STA 9 10-12-82 23452 UP CAST

Latitude: 35.191N Longitude: 121.068W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Beam Atten	Diffuse Attenuation (/M)										
					410 nM	441 nM	465 nM	488 nM	520 nM	540 nM	560 nM	589 nM	625 nM	671 nM	694 nM
			Clean water value->		0.017	0.015	0.016	0.020	0.048	0.055	0.071	0.107	0.244	0.468	0.600
3.9	50.698	95.667	56.66	0.614	0.156	0.131	0.112	0.099	0.105	0.108	0.123	0.194	0.410	0.562	0.620
8.8	15.147	33.373	24.69	0.648	0.166	0.145	0.121	0.106	0.110	0.112	0.126	0.192			
13.7	14.874	33.409	24.78	0.647	0.170	0.152	0.129	0.112	0.115	0.117	0.128	0.185			
18.6	14.483	33.379	24.84	0.660	0.166	0.150	0.130	0.115	0.117	0.118	0.128	0.177			
23.7	13.817	33.351	24.95	0.614	0.159	0.138	0.120	0.109	0.113	0.114	0.125	0.171			
28.7	12.539	33.743	25.51	0.586	0.158	0.123	0.106	0.097	0.105	0.108	0.123	0.172			
33.6	12.657	33.272	25.12	0.457		0.109	0.093	0.086	0.096	0.100	0.117				
38.6	12.799	33.258	25.89	0.468		0.100	0.083	0.077	0.089	0.092	0.113				
43.6	12.368	33.474	25.34	0.463		0.093	0.077	0.072	0.085	0.087	0.113				
48.6	11.952	33.562	25.48	0.442		0.090	0.073	0.067	0.083	0.085	0.121				
53.5	11.667	33.523	25.51	0.423			0.069	0.065	0.082	0.083					
58.5	11.618	33.509	25.51	0.449			0.066	0.063	0.081	0.082					
63.5	11.419	33.574	25.59	0.454			0.065	0.063	0.083	0.083					
68.4	11.187	33.573	25.63	0.417			0.067	0.064							
73.5	11.173	33.572	25.64	0.417			0.064	0.066							
78.4	11.131	33.582	25.65	0.411				0.076							
83.4	11.039	33.622	25.70	0.420											
88.4	10.998	33.615	25.70	0.427											
93.4	10.892	33.628	25.73	0.416											
98.3	10.710	33.677	25.80	0.414											
103.3	10.631	33.702	25.83	0.458											
108.2	10.609	33.697	25.83	0.459											
113.2	10.545	33.720	25.86	0.437											
118.2	10.403	33.757	25.92	0.466											
123.3	10.304	33.766	25.94	0.480											
128.2	10.277	33.770	25.95	0.477											
133.0	10.178	33.814	26.00	0.564											
137.9	10.057	33.855	26.05	0.540											
143.0	9.996	33.857	26.06	0.548											
148.0	9.865	33.874	26.10	0.540											
153.0	9.780	33.909	26.14	0.539											
157.9	9.703	33.931	26.17	0.532											
162.9	9.684	33.931	26.17	0.525											
167.9	9.655	33.938	26.18	0.524											
173.0	9.602	33.952	26.20	0.523											
177.9	9.575	33.959	26.21	0.504											
182.8	9.519	33.985	26.24	0.504											
187.8	9.441	33.997	26.26	0.502											
192.8	9.361	34.013	26.29	0.486											

Cast Label : ODEX 3 STA 14 10-14-82 2240Z DN CAST

Latitude: 34.5890N Longitude: 121.1303W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Beam Atten	Diffuse Attenuation (/M)								
					410 nM	441 nM	465 nM	488 nM	520 nM	540 nM	560 nM	589 nM	625 nM
		Clean water value->			0.017	0.015	0.016	0.028	0.048	0.055	0.071	0.107	0.244
3.8	51.273	33.586	57.57	0.549									
8.9	15.953	33.318	24.47	0.547	0.116	0.085	0.078	0.061	0.074	0.078	0.095	0.155	0.343
13.7	15.758	33.375	24.55	0.553	0.123	0.091	0.072	0.063	0.073	0.080	0.096	0.158	
18.7	15.713	33.390	24.58	0.552	0.126	0.098	0.078	0.066	0.078	0.084	0.098	0.146	
23.7	15.682	33.359	24.56	0.546	0.128	0.103	0.084	0.072	0.081	0.085	0.095	0.140	
28.5	15.661	33.368	24.57	0.543	0.132	0.105	0.089	0.077	0.081	0.081	0.090	0.132	
33.7	15.237	33.432	24.71	0.580	0.134	0.106	0.090	0.079	0.081	0.082	0.092	0.130	
38.7	14.929	33.387	24.75	0.540	0.136	0.106	0.088	0.079	0.085	0.089	0.102	0.141	
43.6	13.678	33.262	24.91	0.473		0.103	0.085	0.077	0.088	0.093	0.110		
48.6	13.554	33.305	24.97	0.469		0.102	0.084	0.077	0.088	0.093	0.112		
53.5	13.115	33.486	25.35	0.468		0.102	0.083	0.076	0.087	0.098	0.117		
58.5	12.738	33.441	25.24	0.469		0.104	0.082	0.075	0.088	0.098			
63.4	12.461	33.429	25.28	0.455		0.102	0.079	0.073	0.088	0.087			
68.5	12.196	33.495	25.39	0.482			0.076	0.071	0.084	0.083			
73.4	12.074	33.472	25.39	0.502			0.073	0.068	0.084	0.078			
78.4	11.963	33.519	25.45	0.462			0.078	0.067	0.085				
83.4	11.814	33.494	25.46	0.433			0.073	0.069					
88.4	11.684	33.584	25.57	0.434				0.078					
93.3	11.406	33.545	25.57	0.423									
98.2	11.111	33.581	25.65	0.408									
103.2	10.838	33.616	25.73	0.396									
108.2	10.538	33.605	25.77	0.390									
113.2	10.268	33.683	25.88	0.387									
118.2	10.080	33.699	25.93	0.385									
123.2	10.017	33.703	25.94	0.384									
128.1	9.863	33.763	26.01	0.384									
133.0	9.671	33.794	26.07	0.383									
138.0	9.358	33.825	26.15	0.383									

SHORT DATA FILE

Cast Label : ODEX 3 STA 19 10-15-82 17052 ON CAST

Latitude: 34.5870N Longitude: 122.4250W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Beam Atten Clean water value->	Diffuse Attenuation (/M)										
					410 nM	441 nM	465 nM	488 nM	520 nM	540 nM	560 nM	589 nM	625 nM	671 nM	694 nM
3.8	51.580	99.181	58.38	0.569	0.104	0.084	0.071	0.062	0.075	0.079	0.094	0.157	0.344	0.487	0.572
8.7	16.453	33.360	24.39	0.565	0.112	0.085	0.072	0.063	0.075	0.079	0.095	0.158	0.356		
13.8	16.454	33.363	24.39	0.565	0.117	0.091	0.075	0.066	0.077	0.082	0.099	0.156			
18.7	16.454	33.363	24.39	0.563	0.124	0.102	0.083	0.072	0.082	0.087	0.102	0.151			
23.7	16.331	33.382	24.43	0.574	0.130	0.110	0.092	0.079	0.087	0.090	0.101	0.144			
28.8	16.222	33.395	24.47	0.550	0.136	0.114	0.098	0.087	0.090	0.091	0.100	0.141			
33.6	16.187	33.384	24.46	0.515	0.138	0.116	0.101	0.092	0.092	0.092	0.103	0.140			
38.6	16.149	33.371	24.46	0.557	0.137	0.116	0.100	0.091	0.094	0.095	0.106	0.148			
43.5	16.128	33.368	24.47	0.541		0.111	0.094	0.086	0.092	0.095	0.108				
48.6	15.632	33.499	24.68	0.513		0.102	0.084	0.076	0.087	0.091	0.110				
53.4	13.388	33.748	25.35	0.447		0.093	0.073	0.066	0.080	0.085	0.110				
58.5	12.914	33.454	25.22	0.420		0.087	0.065	0.059	0.075	0.081					
63.5	12.586	33.364	25.23	0.398		0.083	0.061	0.056	0.074	0.082					
68.5	12.035	33.531	25.44	0.481			0.059	0.055	0.076	0.085					
73.4	11.666	33.513	25.58	0.398			0.055	0.054	0.079						
78.5	11.326	33.525	25.57	0.397				0.051	0.051	0.076					
83.3	10.995	33.568	25.66	0.393				0.050	0.050						
88.5	10.628	33.578	25.73	0.393				0.051	0.054						
93.3	10.523	33.482	25.68	0.389				0.059	0.068						
98.3	10.112	33.576	25.82	0.388					0.092						
103.2	10.013	33.594	25.85	0.387											
108.2	9.794	33.660	25.94	0.386											
113.3	9.656	33.660	25.97	0.385											
118.2	9.591	33.648	25.97	0.384											
123.2	9.447	33.673	26.01	0.384											
128.1	9.373	33.691	26.04	0.383											
133.0	9.238	33.736	26.09	0.384											
138.0	9.176	33.729	26.10	0.383											
143.1	9.047	33.772	26.15	0.383											
148.0	8.983	33.782	26.17	0.383											
153.0	8.889	33.823	26.22	0.382											
158.0	8.793	33.847	26.25	0.383											

SHORT DATA FILE

Cast Label : ODEX 3 STA 21 DN CAST 10-16-82 00462

Latitude: 34.586N Longitude: 123.143W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Beam Atten Clean water value->	Diffuse Attenuation (1/M)									
					410 nM	441 nM	465 nM	488 nM	520 nM	540 nM	560 nM	589 nM	625 nM	
3.8	51.727	97.822	57.37	0.490	0.058	0.045	0.042	0.040	0.066	0.075	0.099	0.180	0.396	0.564
8.9	16.449	32.969	24.89	0.487	0.075	0.058	0.050	0.046	0.069	0.080	0.102	0.171		
13.6	16.176	32.936	24.12	0.494	0.083	0.069	0.057	0.053	0.077	0.087	0.106	0.168		
18.6	15.988	32.925	24.16	0.513	0.084	0.074	0.065	0.060	0.082	0.090	0.106	0.163		
23.7	15.838	32.907	24.18	0.501	0.090	0.078	0.072	0.066	0.082	0.088	0.105	0.158		
28.7	15.622	32.942	24.25	0.514	0.099	0.085	0.080	0.073	0.083	0.089	0.104	0.152		
33.5	15.178	33.017	24.41	0.561	0.110	0.097	0.087	0.080	0.087	0.091	0.105			
38.7	15.085	33.048	24.45	0.577	0.119	0.105	0.095	0.086	0.090	0.094	0.106			
43.7	14.942	33.022	24.46	0.563	0.127	0.111	0.099	0.089	0.092	0.096	0.108			
48.6	13.436	32.931	24.71	0.538		0.113	0.097	0.088	0.092	0.097	0.110			
53.4	12.419	33.099	25.04	0.504		0.109	0.091	0.083	0.090	0.098				
58.5	11.692	32.984	25.02	0.470		0.101	0.084	0.077	0.087	0.097				
63.5	11.176	32.914	25.12	0.439		0.091	0.076	0.070	0.086					
68.4	11.117	32.923	25.14	0.433			0.069	0.064	0.084					
73.4	11.874	32.939	25.16	0.425				0.062	0.059					
78.4	10.958	32.988	25.21	0.408				0.058	0.056					
83.3	10.935	33.049	25.27	0.398				0.050	0.053					
88.5	10.135	33.008	25.38	0.395					0.053					
93.3	9.873	33.002	25.42	0.388										
98.3	10.009	32.964	25.36	0.389										
103.2	9.718	33.114	25.53	0.386										
108.3	9.832	33.228	25.60	0.384										
113.2	10.004	33.316	25.64	0.384										

SHORT DATA FILE

Cast Label : ODEX 3 STA 21 UP CAST 10-16-82 00582

Latitude: 34.5864N Longitude: 123.1436W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Beam Atten	410 nM	441 nM	465 nM	488 nM	520 nM	540 nM	560 nM	589 nM	625 nM	671 nM	694 nM
		Clean water value->			0.017	0.015	0.016	0.020	0.048	0.055	0.071	0.107	0.244	0.460	0.680
3.9	51.680	97.558	57.23	0.470	0.059	0.055	0.047	0.048	0.080	0.094	0.118	0.195	0.419		
8.8	16.424	32.942	24.07	0.473	0.066	0.058	0.052	0.049	0.073	0.082	0.103	0.172			
13.8	15.979	32.941	24.17	0.504	0.071	0.059	0.055	0.051	0.071	0.077	0.098	0.162			
18.7	15.929	32.920	24.17	0.487	0.077	0.064	0.059	0.054	0.072	0.079	0.099	0.159			
23.7	15.637	32.985	24.22	0.490	0.086	0.072	0.064	0.059	0.075	0.081	0.100	0.159			
28.7	15.191	32.983	24.38	0.524	0.096	0.082	0.073	0.066	0.077	0.082	0.100				
33.7	15.022	32.997	24.43	0.557	0.104	0.091	0.081	0.074	0.081	0.084	0.102				
38.6	14.961	32.967	24.42	0.573	0.111	0.098	0.088	0.080	0.084	0.086	0.107				
43.6	13.833	33.125	24.78	0.575	0.118	0.102	0.091	0.082	0.087	0.089	0.114				
48.7	12.827	32.867	24.78	0.505		0.103	0.090	0.082	0.090	0.091					
53.4	12.001	32.957	25.01	0.494		0.097	0.085	0.077	0.091	0.088					
58.6	11.605	32.877	25.02	0.465		0.089	0.076	0.070	0.089						
63.5	11.163	32.896	25.11	0.435		0.078	0.067	0.064	0.087						
68.4	11.126	32.906	25.13	0.432			0.064	0.062							
73.4	11.089	32.953	25.17	0.423			0.068	0.062							
78.4	10.969	32.979	25.21	0.413			0.058	0.058							
83.3	10.961	33.020	25.24	0.398				0.055							
88.3	10.186	32.965	25.34	0.395											
93.4	9.927	32.947	25.36	0.388											
98.3	9.878	33.140	25.52	0.388											
103.2	9.704	33.114	25.53	0.385											
108.1	9.850	33.233	25.48	0.383											

SHORT DATA FILE

Cast Label : 00EX 3 STA 25 UP CAST 10-16-82 21342

Latitude: 35.8965N Longitude: 124.4262W

Z-ave M	Temp deg C	Sal. ppt	Dens.	Beam &T Atten Clean water value->	Diffuse Attenuation (M)									
					410 nm	441 nm	465 nm	488 nm	520 nm	548 nm	560 nm	589 nm	625 nm	671 nm
3.9	52.397	181.943	59.67	0.435	0.038	0.031	0.029	0.028	0.053	0.062	0.082	0.149	0.349	0.500
8.8	17.572	33.029	23.87	0.443	0.046	0.035	0.031	0.028	0.048	0.055	0.073	0.139	0.338	
13.7	17.503	33.035	23.89	0.443	0.050	0.038	0.032	0.028	0.046	0.052	0.067	0.128		
18.7	17.425	33.063	23.93	0.448	0.052	0.039	0.033	0.028	0.044	0.049	0.064	0.117		
23.8	17.494	33.097	23.94	0.444	0.051	0.039	0.033	0.028	0.044	0.049	0.067	0.112		
28.7	17.586	33.138	23.95	0.448	0.048	0.038	0.033	0.029	0.046	0.053	0.073	0.113		
33.7	17.552	33.137	23.96	0.437	0.051	0.041	0.035	0.032	0.049	0.058	0.076	0.114		
38.7	17.296	33.140	24.02	0.452	0.067	0.050	0.043	0.038	0.052	0.063	0.076	0.112		
43.6	15.358	33.177	24.07	0.503	0.086	0.063	0.053	0.046	0.068	0.067	0.079	0.113		
48.5	14.233	33.040	24.63	0.486	0.104	0.080	0.064	0.055	0.069	0.072	0.085	0.120		
53.5	13.669	33.079	24.77	0.488	0.114	0.094	0.075	0.064	0.074	0.076	0.090			
58.5	13.115	32.973	24.88	0.488	0.117	0.097	0.081	0.070	0.073	0.076	0.090			
63.5	12.799	32.906	24.81	0.487	0.114	0.091	0.080	0.071	0.072	0.076	0.092			
68.5	12.373	32.990	24.96	0.456	0.109	0.086	0.074	0.068	0.072	0.076	0.095			
73.4	12.132	32.951	24.98	0.433	0.105	0.081	0.068	0.063	0.072	0.077	0.102			
78.4	12.025	32.992	25.03	0.420	0.098	0.072	0.060	0.056	0.069	0.075				
83.4	12.076	32.951	24.99	0.397	0.088	0.063	0.053	0.050	0.066	0.072				
88.4	12.203	33.141	25.11	0.389	0.078	0.056	0.047	0.045	0.063	0.068				
93.5	11.965	33.209	25.21	0.383		0.051	0.044	0.042	0.061	0.063				
98.2	11.307	33.137	25.27	0.386		0.048	0.041	0.040	0.060	0.061				
103.3	11.150	33.108	25.28	0.386		0.046	0.040	0.039	0.060	0.061				
108.2	10.939	33.103	25.31	0.385		0.046	0.040	0.038	0.063	0.067				
113.2	10.457	33.131	25.42	0.385		0.047	0.040	0.038	0.065					
118.2	10.374	33.145	25.44	0.384		0.049	0.040	0.038						
123.3	10.245	33.231	25.53	0.383		0.049	0.041	0.039						
128.2	10.064	33.300	25.62	0.382		0.050	0.042	0.039						
133.0	9.852	33.329	25.68	0.381			0.043	0.040						
138.0	9.802	33.356	25.78	0.381			0.044	0.041						
143.0	9.618	33.475	25.83	0.382			0.045	0.043						
148.0	9.520	33.555	25.91	0.382			0.047	0.046						
153.1	9.293	33.625	26.00	0.383			0.051	0.048						
158.0	9.214	33.642	26.02	0.382			0.050	0.050						
162.9	9.157	33.689	26.07	0.383				0.053						
167.9	9.074	33.728	26.11	0.382				0.061						
172.9	8.993	33.801	26.18	0.383										
177.9	8.957	33.804	26.19	0.382										
182.8	8.914	33.854	26.24	0.382										
187.8	8.864	33.865	26.25	0.382										
192.7	8.799	33.887	26.28	0.382										

Cast Label : ODEX 3 STA 30 ON CAST 10-17-82 1830Z

Latitude: 34.2977N Longitude: 123.4002W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Beam Atten	Diffuse Attenuation (/M)										
					410 nM	441 nM	465 nM	488 nM	520 nM	540 nM	568 nM	589 nM	625 nM	671 nM	694 nM
		Clean water value->			0.017	0.015	0.016	0.020	0.048	0.055	0.071	0.107	0.244	0.468	0.600
3.8	51.733	98.040	57.52	0.473	0.057	0.046	0.041	0.038	0.059	0.067	0.085	0.152	0.341	0.493	0.589
8.8	16.666	32.963	24.83	0.468	0.057	0.047	0.042	0.039	0.060	0.067	0.085	0.146	0.332	0.439	
13.7	16.642	32.969	24.84	0.469	0.059	0.048	0.043	0.039	0.060	0.067	0.085	0.145	0.323		
18.7	16.638	32.959	24.83	0.476	0.068	0.049	0.044	0.040	0.060	0.068	0.085	0.144			
23.7	16.633	32.963	24.84	0.469	0.061	0.051	0.046	0.043	0.062	0.069	0.087	0.141			
28.7	16.634	32.968	24.84	0.469	0.069	0.057	0.051	0.047	0.065	0.072	0.092	0.136			
33.6	16.648	32.966	24.84	0.468	0.091	0.070	0.061	0.055	0.068	0.077	0.096	0.133			
38.5	15.428	33.315	24.58	0.496	0.118	0.098	0.074	0.065	0.075	0.083	0.096	0.138			
43.6	13.070	32.883	24.74	0.520	0.135	0.108	0.088	0.074	0.083	0.087	0.096	0.129			
48.6	12.779	32.870	24.79	0.524	0.134	0.113	0.095	0.081	0.084	0.084	0.095	0.127			
53.5	12.292	33.152	25.10	0.549	0.128	0.108	0.094	0.083	0.092	0.092	0.095				
58.5	11.885	33.057	25.10	0.477	0.119	0.097	0.085	0.078	0.079	0.083	0.098				
63.4	11.714	32.949	25.05	0.449	0.113	0.089	0.076	0.070	0.078	0.083	0.099				
68.5	11.360	32.999	25.16	0.445	0.107	0.082	0.069	0.063	0.073	0.080	0.098				
73.4	11.252	32.974	25.16	0.434	0.102	0.075	0.062	0.058	0.069	0.076	0.099				
78.3	10.987	32.935	25.17	0.422		0.068	0.057	0.053	0.066	0.074					
83.4	10.762	33.006	25.27	0.412		0.061	0.051	0.048	0.064	0.073					
88.4	10.456	33.000	25.28	0.486		0.057	0.047	0.045	0.062	0.074					
93.4	10.366	33.016	25.34	0.397		0.055	0.044	0.042	0.060	0.074					
98.4	10.155	33.026	25.39	0.397		0.055	0.042	0.040	0.059						
103.3	10.049	32.935	25.33	0.395		0.054	0.040	0.039	0.059						
108.2	9.956	32.988	25.33	0.392		0.054	0.040	0.038	0.059						
113.3	9.899	32.965	25.38	0.388			0.041	0.038	0.061						
118.2	9.895	33.041	25.44	0.388			0.043	0.039							
123.2	9.726	33.239	25.63	0.386			0.044	0.041							
128.2	9.698	33.342	25.71	0.386			0.048	0.044							
133.8	9.805	33.465	25.79	0.389			0.051	0.046							
138.1	9.907	33.512	25.81	0.389			0.054	0.049							
142.9	9.849	33.623	25.90	0.390			0.051	0.051							
148.8	9.493	33.600	25.95	0.388				0.053							
153.8	9.341	33.709	26.06	0.388				0.065							
158.0	9.275	33.775	26.12	0.389											
162.8	9.044	33.846	26.21	0.385											
167.9	8.810	33.854	26.25	0.384											
172.9	8.813	33.857	26.26	0.385											
177.8	8.789	33.861	26.26	0.386											
182.8	8.700	33.879	26.29	0.386											
187.8	8.617	33.886	26.31	0.386											
192.7	8.574	33.911	26.34	0.385											

Cast Label : ODEX 3 STA 30 UP CAST 10-17-82 18

Latitude: 34.2857N Longitude: 123.4038W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Beam Atten	Diffuse Attenuation (M)										
					410 nM	441 nM	465 nM	488 nM	520 nM	540 nM	560 nM	589 nM	625 nM		
		Clean water value->			0.017	0.015	0.016	0.020	0.048	0.055	0.071	0.107	0.244	0.468	0.608
3.8	51.745	98.002	57.49	0.464	0.055	0.044	0.039	0.036	0.057	0.064	0.082	0.148	0.334	0.485	0.579
8.8	16.683	32.968	24.03	0.466	0.056	0.045	0.040	0.037	0.058	0.066	0.084	0.145	0.334	0.448	
13.8	16.678	32.970	24.03	0.466	0.058	0.048	0.043	0.039	0.060	0.067	0.085	0.144	0.328		
18.7	16.675	32.967	24.03	0.467	0.061	0.051	0.046	0.042	0.062	0.069	0.086	0.144			
23.8	16.665	32.968	24.04	0.466	0.068	0.057	0.051	0.047	0.065	0.072	0.089	0.143			
28.6	16.615	32.938	24.02	0.467	0.086	0.068	0.059	0.053	0.068	0.073	0.093	0.139			
33.6	14.625	33.197	24.67	0.501	0.110	0.083	0.070	0.061	0.071	0.078	0.096	0.135			
38.6	12.801	32.875	24.79	0.519	0.128	0.099	0.081	0.078	0.078	0.084	0.098	0.134			
43.5	12.658	32.829	24.78	0.519	0.131	0.109	0.090	0.077	0.084	0.087	0.097	0.136			
48.5	12.248	33.000	24.99	0.562	0.125	0.108	0.092	0.088	0.084	0.084	0.096	0.136			
53.5	11.922	32.965	25.03	0.485	0.117	0.098	0.086	0.078	0.081	0.082	0.098				
58.5	11.583	33.030	25.14	0.448	0.110	0.089	0.077	0.073	0.077	0.082	0.100				
63.5	11.288	32.866	25.07	0.445	0.103	0.082	0.071	0.066	0.075	0.081	0.102				
68.5	11.138	32.962	25.17	0.432	0.096	0.075	0.064	0.060	0.071	0.077	0.101				
73.4	11.058	32.983	25.28	0.422	0.086	0.068	0.058	0.055	0.068	0.075	0.105				
78.4	10.736	33.018	25.28	0.413		0.062	0.053	0.050	0.066	0.073					
83.4	10.652	33.051	25.32	0.411		0.056	0.049	0.047	0.064	0.071					
88.4	10.415	32.979	25.31	0.397		0.052	0.045	0.043	0.062	0.067					
93.3	10.148	32.941	25.32	0.395		0.049	0.043	0.041	0.062	0.068					
98.3	10.024	32.936	25.34	0.392		0.048	0.041	0.040	0.062	0.070					
103.3	9.917	32.926	25.35	0.389		0.047	0.040	0.039	0.063						
108.3	9.895	32.956	25.38	0.387		0.047	0.040	0.039	0.063						
113.3	9.916	33.060	25.45	0.386		0.051	0.043	0.040	0.066						
118.2	9.678	33.271	25.66	0.384			0.046	0.042							
123.2	9.700	33.311	25.69	0.385			0.048	0.045							
128.1	9.870	33.563	25.86	0.387			0.050	0.048							
133.0	9.968	33.611	25.88	0.389			0.053	0.051							
137.9	9.788	33.661	25.95	0.389			0.056	0.052							
143.8	9.439	33.710	26.04	0.388			0.057	0.054							
148.0	9.405	33.724	26.06	0.389			0.064								
153.0	9.214	33.758	26.11	0.388											
158.0	8.974	33.770	26.16	0.384											
162.9	8.809	33.818	26.23	0.384											
167.9	8.803	33.846	26.25	0.385											
173.0	8.791	33.856	26.26	0.384											
177.8	8.714	33.880	26.29	0.385											
182.8	8.648	33.899	26.31	0.385											
187.8	8.564	33.908	26.33	0.385											

SHORT DATA FILE

Cast Label : ODEX 3 STA 37 DN CAST 10-18-82 1905Z

Latitude: 34.2949N Longitude: 125.4690W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Beam Atten Clean water value->	418 nM	441 nM	465 nM	488 nM	520 nM	540 nM	560 nM	589 nM	625 nM	671 nM	694 nM	Diffuse Attenuation (/M)
3.8	52.479	102.672	60.11	0.445	0.033	0.027	0.025	0.025	0.048	0.056	0.074	0.137	0.326	0.468	0.557	
8.8	17.911	33.048	23.80	0.443	0.034	0.028	0.026	0.025	0.047	0.055	0.074	0.137	0.319			
13.7	17.909	33.055	23.81	0.443	0.035	0.029	0.027	0.026	0.048	0.056	0.077	0.134				
18.7	17.910	33.059	23.81	0.445	0.040	0.031	0.029	0.028	0.049	0.061	0.079	0.129				
23.8	17.910	33.057	23.81	0.441	0.046	0.033	0.031	0.030	0.054	0.064	0.080	0.126				
28.6	17.910	33.058	23.81	0.442	0.049	0.036	0.034	0.033	0.058	0.066	0.080	0.124				
33.6	17.914	33.060	23.81	0.440	0.050	0.040	0.037	0.036	0.060	0.066	0.082	0.121				
38.7	17.930	33.078	23.82	0.441	0.054	0.048	0.041	0.040	0.060	0.067	0.083	0.117				
43.5	17.855	33.071	23.83	0.443	0.063	0.057	0.050	0.047	0.062	0.069	0.084	0.115				
48.5	17.510	33.118	23.95	0.453	0.081	0.069	0.061	0.055	0.064	0.070	0.084					
53.5	15.798	32.878	24.17	0.492	0.101	0.081	0.071	0.062	0.068	0.074	0.087					
58.5	14.819	33.072	24.53	0.501	0.109	0.088	0.075	0.066	0.073	0.078	0.091					
63.5	14.708	33.116	24.58	0.464	0.110	0.090	0.077	0.068	0.076	0.082	0.097					
68.4	14.149	33.112	24.70	0.473	0.113	0.092	0.078	0.070	0.075	0.081	0.099					
73.4	13.629	32.943	24.68	0.487	0.119	0.093	0.079	0.070	0.075	0.080						
78.4	12.882	32.957	24.84	0.469		0.091	0.077	0.068	0.075	0.082						
83.4	12.605	32.966	24.90	0.442		0.087	0.072	0.065	0.073	0.084						
88.5	12.426	32.973	24.94	0.430		0.081	0.067	0.061	0.071							
93.3	12.355	32.998	24.97	0.424		0.077	0.063	0.057	0.071							
98.3	12.112	33.000	25.02	0.416		0.072	0.058	0.054								
103.1	11.975	33.028	25.07	0.410			0.054	0.051								
108.2	11.694	33.019	25.11	0.465			0.050	0.049								
113.2	11.566	33.017	25.13	0.398			0.048	0.047								
118.2	11.355	33.039	25.19	0.395			0.044	0.044								
123.2	11.210	33.053	25.23	0.394			0.042	0.042								
128.0	10.991	33.111	25.31	0.390			0.040	0.041								
133.0	10.741	33.057	25.31	0.390			0.045									
138.0	10.546	33.090	25.37	0.389												
143.0	10.513	33.140	25.42	0.387												
147.9	10.174	33.339	25.63	0.386												
153.0	10.084	33.313	25.62	0.386												
157.9	9.998	33.483	25.71	0.384												
162.9	9.894	33.411	25.73	0.385												
167.9	9.807	33.472	25.79	0.385												
172.9	9.767	33.547	25.86	0.388												
177.9	9.635	33.620	25.94	0.382												
182.8	9.413	33.679	26.02	0.383												
187.7	9.317	33.731	26.08	0.385												
192.7	9.254	33.734	26.09	0.386												

Cast Label : ODEX 3 STA 37 UP CAST 10-18-82 1933Z

Latitude: 34.2938N Longitude: 125.4098W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Beam Atten Clean water value->	Diffuse Attenuation (/M)										
					418 nM	441 nM	465 nM	488 nM	528 nM	540 nM	568 nM	589 nM	625 nM	671 nM	694 nM
3.8	52.463	33.053	23.81	0.439	0.034	0.028	0.026	0.026	0.049	0.056	0.074	0.139	0.327	0.471	0.549
8.7	17.887	33.053	23.81	0.438	0.035	0.028	0.026	0.025	0.047	0.055	0.075	0.137	0.332		
13.7	17.887	33.053	23.81	0.438	0.038	0.029	0.027	0.025	0.047	0.057	0.077	0.133			
18.7	17.887	33.053	23.81	0.439	0.042	0.030	0.028	0.027	0.050	0.061	0.078	0.127			
23.7	17.889	33.049	23.81	0.437	0.045	0.032	0.030	0.029	0.054	0.062	0.077	0.124			
28.7	17.890	33.049	23.81	0.437	0.047	0.036	0.033	0.032	0.057	0.062	0.078	0.123			
33.7	17.841	33.029	23.80	0.439	0.051	0.044	0.037	0.036	0.058	0.064	0.081	0.123			
38.6	17.741	32.992	23.80	0.436	0.060	0.053	0.046	0.043	0.059	0.065	0.082	0.124			
43.5	16.878	33.438	24.34	0.452	0.076	0.064	0.056	0.050	0.061	0.066	0.082				
48.7	15.282	32.989	24.38	0.492	0.093	0.074	0.066	0.057	0.064	0.068	0.084				
53.4	14.597	33.015	24.53	0.497	0.102	0.082	0.070	0.062	0.069	0.073	0.090				
58.5	14.598	33.070	24.57	0.467	0.104	0.084	0.072	0.064	0.072	0.077	0.096				
63.5	13.929	33.168	24.79	0.470	0.107	0.086	0.074	0.066	0.073	0.076	0.102				
68.4	13.028	33.005	24.85	0.472	0.114	0.087	0.074	0.067	0.073	0.076					
73.4	12.624	32.963	24.89	0.452	0.113	0.085	0.072	0.066	0.075	0.076					
78.3	12.464	32.955	24.92	0.434		0.079	0.068	0.063	0.074	0.075					
83.4	12.389	32.967	24.94	0.422		0.073	0.063	0.059	0.072	0.072					
88.5	12.202	32.989	24.99	0.418		0.067	0.059	0.055	0.071						
93.3	11.991	33.030	25.06	0.407		0.063	0.055	0.052	0.076						
98.3	11.772	33.015	25.09	0.398		0.057	0.051	0.049							
103.2	11.567	33.052	25.16	0.397		0.047	0.045	0.046							
108.2	11.346	33.040	25.19	0.394		0.041	0.042	0.044							
113.1	11.238	33.062	25.23	0.390			0.042	0.043							
118.1	11.123	33.035	25.23	0.389			0.041	0.043							
123.3	10.833	33.026	25.27	0.386			0.036	0.043							
128.1	10.691	33.064	25.33	0.386			0.039	0.045							
132.9	10.529	33.091	25.37	0.383			0.052	0.055							
137.9	10.558	33.157	25.42	0.383											
143.0	10.190	33.375	25.45	0.382											
148.0	10.071	33.288	25.61	0.382											
153.0	10.015	33.424	25.72	0.380											

SHORT DATA FILE

Cast Label : ODEX 3 STA 38 UP CAST 10-18-82 2149Z

Latitude: 34.999N Longitude: 125.454W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Beam Atten	Diffuse Attenuation (/M)										
					410 nM	441 nM	465 nM	488 nM	520 nM	540 nM	560 nM	589 nM	625 nM	671 nM	694 nM
		Clean water value->			0.017	0.015	0.016	0.020	0.048	0.055	0.071	0.107	0.244	0.460	0.600
3.7	52.445	182.375	59.93	0.443	0.036	0.030	0.028	0.027	0.049	0.057	0.074	0.135	0.320	0.459	0.544
8.7	17.852	33.031	23.80	0.443	0.037	0.030	0.028	0.027	0.049	0.056	0.073	0.136	0.320		
13.7	17.853	33.038	23.80	0.443	0.037	0.030	0.028	0.027	0.048	0.056	0.075	0.134			
18.7	17.853	33.029	23.80	0.443	0.038	0.031	0.029	0.028	0.048	0.057	0.078	0.129			
23.7	17.851	33.027	23.80	0.443	0.041	0.032	0.030	0.029	0.049	0.060	0.078	0.123			
28.6	17.844	33.019	23.80	0.443	0.046	0.034	0.031	0.030	0.052	0.062	0.076	0.119			
33.7	17.831	33.017	23.80	0.448	0.049	0.036	0.033	0.031	0.055	0.062	0.076	0.116			
38.6	17.988	33.063	23.80	0.439	0.049	0.038	0.035	0.033	0.057	0.062	0.078	0.115			
43.6	17.974	33.084	23.81	0.435	0.051	0.045	0.039	0.037	0.058	0.064	0.080	0.114			
48.6	17.893	33.124	23.86	0.431	0.063	0.056	0.048	0.044	0.059	0.065	0.081	0.109			
53.5	15.949	33.200	24.38	0.479	0.080	0.068	0.058	0.052	0.061	0.066	0.082				
58.5	15.015	33.158	24.55	0.493	0.096	0.077	0.067	0.059	0.065	0.069	0.085				
63.5	14.599	32.929	24.46	0.488	0.105	0.085	0.073	0.064	0.071	0.074	0.092				
68.5	13.994	32.999	24.65	0.482	0.110	0.090	0.077	0.068	0.074	0.077	0.099				
73.3	13.797	32.976	24.67	0.479	0.115	0.093	0.079	0.070	0.075	0.077					
78.4	13.063	32.954	24.80	0.476	0.118	0.093	0.079	0.071	0.075	0.075					
83.4	12.795	32.996	24.88	0.454	0.116	0.089	0.076	0.069	0.076	0.076					
88.4	12.436	32.979	24.94	0.435		0.083	0.070	0.066	0.077	0.074					
93.3	12.147	32.978	24.99	0.419		0.076	0.066	0.062	0.076	0.069					
98.2	12.061	32.952	24.99	0.415		0.070	0.062	0.058	0.076						
103.3	11.864	32.936	25.01	0.408		0.065	0.057	0.055	0.075						
108.2	11.439	32.939	25.04	0.404		0.060	0.053	0.053							
113.2	11.438	32.985	25.13	0.397		0.053	0.047	0.051							
118.3	12.136	33.135	25.12	0.389			0.046	0.049							
123.3	12.154	33.248	25.20	0.383			0.047	0.048							
128.1	12.840	33.353	25.31	0.382			0.045	0.048							
133.0	11.940	33.354	25.33	0.382			0.043	0.051							
137.9	11.562	33.554	25.55	0.381			0.055	0.061							
143.0	11.261	33.382	25.47	0.380											
148.0	11.228	33.430	25.52	0.379											
153.0	11.027	33.450	25.57	0.378											
158.0	10.632	33.557	25.72	0.378											
162.9	10.428	33.592	25.78	0.378											
167.9	10.020	33.544	25.82	0.380											
172.8	9.739	33.562	25.88	0.382											
177.8	9.616	33.594	25.92	0.382											

SHORT DATA FILE

Cast Label : ODEX 3 STA 44 UP CAST 18-19-82 21102

Latitude: 34.2958N Longitude: 128.8998W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Beam Atten Clean water value->	Diffuse Attenuation (/M)										
					410 nM	441 nM	465 nM	488 nM	520 nM	540 nM	560 nM	589 nM	625 nM	671 nM	694 nM
3.8	52.943	107.201	62.78	0.413	0.029	0.026	0.025	0.025	0.050	0.057	0.076	0.141	0.331	0.475	0.562
8.8	18.834	33.161	23.66	0.415	0.029	0.025	0.024	0.024	0.047	0.054	0.072	0.136	0.321		
13.7	18.828	33.162	23.66	0.415	0.029	0.024	0.023	0.022	0.044	0.052	0.070	0.131			
18.7	18.794	33.161	23.67	0.417	0.027	0.022	0.020	0.019	0.041	0.048	0.069	0.125			
23.8	18.797	33.166	23.67	0.417	0.026	0.021	0.019	0.017	0.038	0.047	0.068	0.114			
28.6	18.804	33.171	23.68	0.417	0.027	0.022	0.019	0.018	0.038	0.048	0.067	0.110			
33.7	18.808	33.179	23.68	0.417	0.030	0.025	0.023	0.021	0.041	0.053	0.068	0.108			
38.5	18.807	33.175	23.68	0.417	0.033	0.029	0.027	0.026	0.048	0.057	0.071	0.110			
43.6	18.806	33.177	23.68	0.416	0.040	0.032	0.030	0.029	0.054	0.060	0.075	0.114			
48.5	18.804	33.171	23.68	0.415	0.044	0.034	0.032	0.031	0.055	0.060	0.076	0.115			
53.5	18.800	33.155	23.66	0.415	0.049	0.038	0.035	0.033	0.054	0.060	0.075				
58.5	18.405	33.372	23.93	0.422	0.060	0.051	0.042	0.038	0.054	0.060	0.075				
63.5	15.789	33.101	24.35	0.442	0.077	0.065	0.052	0.045	0.057	0.062	0.078				
68.4	14.885	33.004	24.46	0.435	0.088	0.072	0.060	0.052	0.060	0.065	0.081				
73.4	14.317	33.012	24.59	0.432	0.095	0.075	0.065	0.056	0.062	0.067	0.084				
78.4	13.893	32.967	24.64	0.424	0.103	0.079	0.066	0.058	0.064	0.068	0.080				
83.4	13.441	32.866	24.65	0.423	0.109	0.083	0.067	0.058	0.065	0.069					
88.4	12.719	33.001	24.90	0.423	0.110	0.082	0.066	0.058	0.065	0.069					
93.3	12.119	32.968	24.99	0.407	0.110	0.080	0.065	0.058	0.067	0.069					
98.3	11.621	33.046	25.14	0.397	0.106	0.076	0.062	0.056	0.067	0.068					
103.2	11.393	33.094	25.22	0.398		0.072	0.059	0.053	0.066	0.069					
108.2	10.962	33.203	25.39	0.393		0.069	0.056	0.051	0.065	0.069					
113.4	10.674	33.305	25.52	0.388		0.068	0.055	0.050	0.066						
118.2	10.447	33.373	25.61	0.386		0.067	0.054	0.049	0.073						
123.3	10.170	33.463	25.73	0.383		0.066	0.053	0.048							
128.1	9.867	33.502	25.81	0.382		0.067	0.053	0.047							
133.1	9.558	33.626	25.96	0.382			0.052	0.047							
138.0	9.396	33.640	25.99	0.382			0.053	0.049							
143.0	9.282	33.684	26.86	0.382			0.058	0.052							
148.0	8.983	33.731	26.13	0.382			0.063	0.055							
153.0	8.947	33.746	26.15	0.382			0.068	0.057							
157.9	8.864	33.778	26.19	0.382			0.063								
162.9	8.762	33.823	26.24	0.382											
167.8	8.683	33.861	26.28	0.382											
172.9	8.620	33.880	26.30	0.382											
177.8	8.569	33.887	26.32	0.382											
182.8	8.517	33.902	26.34	0.382											
187.8	8.441	33.924	26.37	0.382											
192.7	8.397	33.924	26.37	0.383											

Cast Label : ODEX 3 STA 46 UP CAST 10-20-82 1911Z

Latitude: 34.3383N Longitude: 130.4653W

Z-ave M	Temp deg C	Sal. ppt	Dens.	Beam &T Atten Clean water value->	Diffuse Attenuation (nM)										
					410 nM	441 nM	465 nM	488 nM	520 nM	548 nM	568 nM	589 nM	625 nM	671 nM	694 nM
3.9	53.881	111.863	65.89	0.409	0.024	0.022	0.023	0.024	0.049	0.057	0.075	0.138	0.327	0.468	0.548
8.8	19.222	33.631	23.92	0.410	0.025	0.022	0.023	0.023	0.047	0.055	0.073	0.136	0.328		
13.7	19.221	33.633	23.92	0.411	0.025	0.023	0.023	0.023	0.047	0.055	0.076	0.133			
18.6	19.222	33.630	23.92	0.410	0.025	0.023	0.023	0.024	0.046	0.057	0.077	0.128			
23.7	19.222	33.628	23.92	0.410	0.026	0.024	0.024	0.024	0.047	0.059	0.077	0.122			
28.7	19.221	33.625	23.92	0.410	0.027	0.025	0.025	0.025	0.050	0.060	0.075	0.118			
33.7	19.216	33.598	23.90	0.410	0.031	0.027	0.027	0.027	0.053	0.059	0.075	0.114			
38.7	19.200	33.610	23.91	0.413	0.039	0.038	0.038	0.038	0.054	0.059	0.075	0.111			
43.5	18.637	33.784	24.19	0.429	0.047	0.035	0.033	0.032	0.053	0.060	0.076	0.109			
48.6	16.673	33.740	24.63	0.423	0.053	0.041	0.036	0.035	0.054	0.061	0.077	0.105			
53.5	16.462	33.678	24.63	0.421	0.054	0.047	0.039	0.038	0.055	0.062	0.077				
58.5	16.193	33.716	24.72	0.421	0.055	0.048	0.043	0.040	0.054	0.061	0.077				
63.5	15.842	33.724	24.88	0.421	0.059	0.049	0.046	0.042	0.055	0.062	0.078				
68.4	15.444	33.620	24.81	0.419	0.063	0.051	0.046	0.043	0.056	0.063	0.081				
73.4	15.096	33.596	24.87	0.419	0.067	0.054	0.047	0.043	0.058	0.064	0.085				
78.4	14.889	33.625	24.96	0.417	0.069	0.056	0.048	0.044	0.057	0.064					
83.4	14.432	33.556	24.98	0.416	0.071	0.057	0.049	0.045	0.057	0.064					
88.5	14.299	33.598	25.04	0.408	0.072	0.058	0.050	0.046	0.058	0.063					
93.3	14.149	33.659	25.12	0.406	0.071	0.058	0.050	0.046	0.058	0.065					
98.3	14.212	33.542	25.02	0.397	0.070	0.056	0.049	0.046	0.057	0.065					
103.3	14.249	33.686	25.12	0.397	0.069	0.055	0.048	0.045	0.058						
108.3	14.055	33.675	25.15	0.397	0.069	0.052	0.046	0.044	0.059						
113.2	13.729	33.651	25.20	0.398	0.068	0.058	0.044	0.043	0.060						
118.2	13.533	33.632	25.23	0.387	0.065	0.048	0.042	0.041	0.063						
123.2	13.436	33.613	25.23	0.386		0.046	0.041	0.049							
128.1	13.284	33.630	25.28	0.385		0.045	0.040	0.040							
133.0	13.169	33.635	25.31	0.383		0.044	0.039	0.039							
137.9	12.993	33.576	25.29	0.382		0.044	0.039	0.039							
142.9	13.148	33.497	25.20	0.382		0.042	0.038	0.039							
148.1	13.015	33.658	25.35	0.381		0.040	0.036	0.040							
153.1	12.970	33.728	25.42	0.380		0.040	0.034	0.040							
158.0	12.636	33.688	25.45	0.378		0.041	0.036	0.040							
162.9	12.810	33.627	25.52	0.378		0.038	0.040								
167.9	11.743	33.686	25.62	0.378		0.036	0.040								
172.8	11.385	33.671	25.67	0.378		0.035	0.038								
177.8	11.085	33.719	25.78	0.378		0.035									
182.8	10.663	33.700	25.83	0.377		0.035									
187.8	10.528	33.746	25.89	0.376		0.034									
192.8	10.106	33.773	25.98	0.374		0.031									

Cast Label : ODEX 3 STA 47 DN CAST 10-22-82 20552

Latitude: 34.1231N Longitude: 134.2236W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Beam Atten Clean water value->	Diffuse Attenuation (/M)										
					410 nM	441 nM	465 nM	488 nM	520 nM	540 nM	560 nM	589 nM	625 nM	671 nM	694 nM
3.8	53.154	114.078	67.21	0.613	0.023	0.020	0.021	0.021	0.046	0.054	0.072	0.137	0.328	0.463	0.568
8.8	19.398	33.687	23.92	0.428	0.025	0.021	0.021	0.021	0.045	0.053	0.071	0.131	0.310	0.417	
13.7	19.373	33.684	23.92	0.414	0.025	0.021	0.021	0.022	0.046	0.054	0.072	0.131	0.293	0.318	
18.7	19.362	33.676	23.92	0.414	0.026	0.023	0.023	0.023	0.047	0.056	0.073	0.131	0.243		
23.7	19.357	33.678	23.92	0.414	0.028	0.024	0.025	0.025	0.049	0.058	0.075	0.132	0.178		
28.7	19.356	33.671	23.92	0.414	0.031	0.028	0.027	0.028	0.051	0.059	0.078	0.126			
33.6	19.344	33.674	23.92	0.414	0.038	0.033	0.031	0.031	0.052	0.059	0.081	0.119			
38.7	18.595	33.624	24.07	0.421	0.047	0.039	0.036	0.034	0.053	0.062	0.082	0.114			
43.6	16.740	33.705	24.58	0.438	0.056	0.046	0.041	0.038	0.055	0.067	0.082	0.111			
48.6	16.118	33.675	24.70	0.427	0.061	0.050	0.044	0.041	0.059	0.070	0.083	0.108			
53.5	15.684	33.678	24.82	0.427	0.069	0.053	0.047	0.043	0.062	0.078	0.082	0.103			
58.5	14.893	33.589	24.91	0.422	0.074	0.055	0.048	0.044	0.064	0.068	0.081	0.098			
63.4	14.707	33.574	24.94	0.416	0.074	0.055	0.048	0.044	0.062	0.068	0.081				
68.5	14.870	33.703	25.08	0.412	0.070	0.058	0.048	0.044	0.061	0.068	0.081				
73.4	14.695	33.678	25.02	0.412	0.070	0.061	0.049	0.045	0.060	0.068	0.080				
78.4	14.820	33.785	25.08	0.411	0.070	0.061	0.053	0.047	0.059	0.068	0.079				
83.4	14.720	33.794	25.11	0.411	0.068	0.057	0.054	0.049	0.058	0.066	0.076				
88.2	14.495	33.783	25.14	0.408	0.069	0.056	0.052	0.049	0.057	0.066	0.072				
93.3	14.211	33.698	25.14	0.398	0.070	0.055	0.049	0.048	0.058	0.067	0.071				
98.3	13.982	33.662	25.18	0.398	0.071	0.055	0.048	0.045	0.058	0.070					
103.2	13.511	33.603	25.21	0.397	0.070	0.053	0.046	0.043	0.056	0.072					
108.2	13.298	33.564	25.23	0.395	0.071	0.051	0.045	0.042	0.056	0.073					
113.2	13.149	33.542	25.24	0.393	0.070	0.050	0.043	0.041	0.055	0.070					
118.2	12.772	33.461	25.25	0.392	0.072	0.049	0.042	0.040	0.054						
123.3	12.561	33.430	25.27	0.390	0.073	0.048	0.041	0.039	0.052						
128.1	12.485	33.419	25.27	0.388	0.068	0.046	0.040	0.037	0.049						
133.1	12.471	33.423	25.28	0.387		0.046	0.039	0.036	0.046						
138.0	12.322	33.397	25.29	0.386		0.046	0.038	0.036	0.044						
143.1	12.415	33.528	25.37	0.384		0.045	0.038	0.035	0.048						
147.9	12.272	33.561	25.42	0.384		0.045	0.038	0.035							
153.0	12.078	33.582	25.48	0.384		0.044	0.037	0.035							
158.0	11.621	33.599	25.57	0.382		0.045	0.038	0.034							
163.0	11.263	33.568	25.62	0.382		0.044	0.038	0.034							
167.9	11.016	33.595	25.68	0.381		0.046	0.038	0.033							
172.8	10.724	33.688	25.74	0.381		0.044	0.037	0.033							
177.9	10.561	33.661	25.81	0.380		0.040	0.035	0.032							
182.8	10.399	33.655	25.84	0.380			0.035	0.031							
187.8	10.206	33.681	25.89	0.379			0.035	0.030							
192.7	10.050	33.715	25.94	0.378			0.037	0.031							

Cast Label : ODEX 3 STA 47 UP CAST 10-22-82 2129Z

Latitude: 34.1231N Longitude: 134.2236E

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Beam Atten	Diffuse Attenuation (1/M)										
					410 nM	441 nM	465 nM	488 nM	520 nM	540 nM	568 nM	589 nM	625 nM	671 nM	
					Clean water value->	0.017	0.015	0.016	0.020	0.048	0.055	0.071	0.107	0.244	0.460
3.8	53.171	113.398	66.74	0.407	0.023	0.020	0.021	0.022	0.047	0.056	0.075	0.141	0.327	0.473	0.564
8.7	19.424	33.690	23.91	0.408	0.025	0.021	0.021	0.022	0.046	0.055	0.073	0.135	0.320	0.428	0.428
13.8	19.379	33.682	23.92	0.409	0.024	0.021	0.021	0.021	0.045	0.053	0.071	0.129	0.299		
18.6	19.371	33.685	23.92	0.410	0.023	0.020	0.020	0.020	0.044	0.052	0.069	0.126			
23.7	19.364	33.676	23.92	0.408	0.023	0.020	0.020	0.021	0.045	0.053	0.071	0.126			
28.6	19.358	33.649	23.98	0.409	0.028	0.024	0.023	0.023	0.047	0.055	0.075	0.123			
33.6	19.223	33.753	24.01	0.412	0.038	0.032	0.030	0.028	0.050	0.057	0.079	0.117			
38.6	16.855	34.193	24.93	0.426	0.050	0.041	0.037	0.034	0.053	0.061	0.081	0.111			
43.7	16.146	33.786	24.78	0.424	0.059	0.048	0.043	0.039	0.056	0.067	0.082	0.109			
48.6	15.568	33.799	24.93	0.424	0.066	0.052	0.046	0.042	0.059	0.070	0.082	0.107			
53.5	14.917	33.966	25.20	0.421	0.073	0.055	0.047	0.043	0.063	0.069	0.082	0.105			
58.5	14.774	33.583	24.93	0.413	0.075	0.055	0.048	0.044	0.064	0.067	0.082	0.104			
63.5	14.819	33.526	24.88	0.412	0.073	0.056	0.048	0.044	0.062	0.067	0.082				
68.4	14.926	33.656	24.95	0.408	0.071	0.061	0.050	0.046	0.061	0.068	0.083				
73.4	14.813	33.810	25.10	0.408	0.071	0.063	0.052	0.047	0.061	0.068	0.084				
78.4	14.687	33.789	25.13	0.406	0.070	0.060	0.054	0.049	0.060	0.066	0.082				
83.4	14.265	33.900	25.28	0.397	0.069	0.056	0.053	0.049	0.058	0.063	0.082				
88.4	13.972	33.661	25.16	0.397	0.069	0.055	0.050	0.048	0.058	0.064					
93.3	13.595	33.644	25.23	0.395	0.070	0.054	0.047	0.046	0.059	0.063					
98.1	13.395	33.594	25.23	0.391	0.069	0.053	0.046	0.044	0.058	0.061					
103.2	13.225	33.582	25.25	0.389	0.068	0.051	0.044	0.042	0.058	0.058					
108.3	12.946	33.541	25.28	0.387	0.068	0.050	0.044	0.042	0.057	0.060					
113.3	12.730	33.465	25.26	0.386	0.067	0.049	0.043	0.041	0.056	0.059					
118.2	12.530	33.419	25.26	0.384	0.067	0.048	0.042	0.040	0.056	0.056					
123.2	12.450	33.406	25.27	0.383	0.065	0.047	0.041	0.039	0.057	0.045					
128.1	12.377	33.421	25.29	0.382		0.047	0.041	0.040	0.057						
133.0	12.436	33.216	25.12	0.382		0.047	0.041	0.040	0.058						
137.9	12.425	33.589	25.35	0.380											
143.0	12.282	33.535	25.40	0.379											
148.0	12.099	33.589	25.48	0.378											
153.0	11.704	33.604	25.56	0.378											
158.0	11.413	33.608	25.62	0.376		0.047	0.039	0.037							

SHORT DATA FILE

Cast Label : ODEX 3 STA 51 UP CAST 10-26-82 00442

Latitude: 34.0128N Longitude: 141.0898W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Beam Atten Clean water value->	Diffuse Attenuation (/M)										
					410 nM	441 nM	465 nM	488 nM	520 nM	540 nM	560 nM	589 nM	625 nM	671 nM	694 nM
3.8	53.385	128.261	71.18	0.415	0.009	0.012	0.017	0.021	0.053	0.064	0.086	0.160	0.370	0.527	0.614
8.7	19.891	34.328	24.27	0.415	0.018	0.017	0.019	0.021	0.049	0.059	0.082	0.152			
13.7	19.891	34.328	24.27	0.415	0.020	0.019	0.021	0.022	0.049	0.061	0.084	0.145			
18.6	19.893	34.319	24.27	0.415	0.024	0.022	0.023	0.024	0.051	0.064	0.084	0.137			
23.7	19.888	34.322	24.28	0.416	0.028	0.025	0.026	0.027	0.054	0.065	0.082	0.131			
28.7	19.876	34.319	24.28	0.416	0.033	0.028	0.028	0.029	0.058	0.065	0.082	0.128			
33.6	19.867	34.319	24.28	0.416	0.036	0.029	0.030	0.031	0.058	0.064	0.082	0.125			
38.5	19.877	34.315	24.27	0.417	0.038	0.030	0.031	0.032	0.057	0.065	0.082	0.124			
43.6	19.898	34.325	24.28	0.415	0.036	0.030	0.031	0.033	0.055	0.064	0.081				
48.6	19.899	34.328	24.28	0.415	0.034	0.033	0.031	0.034	0.055	0.064	0.081				
53.4	19.896	34.317	24.27	0.413	0.035	0.036	0.035	0.037	0.054	0.062	0.081				
58.6	19.724	34.492	24.38	0.415	0.042	0.041	0.040	0.039	0.055	0.063	0.084				
63.4	17.209	34.871	25.37	0.422	0.052	0.045	0.044	0.040	0.056	0.063	0.084				
68.4	16.196	33.934	24.89	0.425	0.062	0.050	0.045	0.042	0.057	0.064	0.087				
73.4	15.359	33.999	25.12	0.424	0.067	0.053	0.047	0.043	0.058	0.065					
78.4	14.924	33.856	25.11	0.420	0.071	0.056	0.049	0.045	0.060	0.064					
83.4	14.937	33.927	25.16	0.416	0.074	0.059	0.051	0.046	0.061	0.066					
88.4	14.563	34.038	25.33	0.415	0.076	0.062	0.053	0.048	0.061	0.066					
93.4	14.371	33.905	25.27	0.413	0.077	0.064	0.055	0.049	0.062	0.065					
98.3	14.225	33.997	25.37	0.411	0.078	0.065	0.056	0.051	0.064						
103.2	14.124	33.952	25.35	0.409	0.076	0.063	0.055	0.051	0.066						
108.2	14.155	33.956	25.35	0.401	0.074	0.061	0.054	0.050	0.071						
113.3	13.979	33.956	25.39	0.397	0.072	0.058	0.051	0.049							
118.2	13.827	33.983	25.44	0.393		0.056	0.049	0.047							
123.2	13.098	34.864	25.65	0.389		0.056	0.048	0.045							
128.1	12.832	33.797	25.50	0.385		0.054	0.047	0.045							
133.1	12.734	33.838	25.55	0.383		0.054	0.045	0.045							
138.0	12.324	33.852	25.64	0.382		0.056	0.043	0.045							
143.0	12.093	33.882	25.71	0.382		0.055	0.043	0.045							
148.0	11.707	33.803	25.72	0.380			0.043	0.046							
153.0	11.378	33.887	25.78	0.379			0.041	0.044							
158.0	11.235	33.833	25.83	0.379			0.041	0.042							
162.8	10.998	33.829	25.87	0.377			0.042	0.041							
167.9	10.748	33.875	25.95	0.375			0.045	0.040							

SHORT DATA FILE

Cast Label : ODEX 3 STA 58 DN CAST 10-27-82 2143Z

Latitude: 33.5810N Longitude: 142.0630W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Beam Atten	Diffuse Attenuation (/M)										
					410 nM	441 nM	465 nM	488 nM	520 nM	540 nM	560 nM	589 nM	625 nM	671 nM	694 nM
			Clean water value->		0.017	0.015	0.016	0.020	0.048	0.055	0.071	0.107	0.244	0.460	0.600
4.8	53.343	124.098	73.68	0.419	0.023	0.021	0.022	0.023	0.049	0.058	0.077	0.143	0.330	0.475	0.565
8.8	20.021	34.679	24.51	0.416	0.025	0.022	0.023	0.024	0.050	0.059	0.078	0.141	0.327	0.430	
13.8	20.026	34.672	24.51	0.414	0.027	0.024	0.025	0.025	0.051	0.060	0.078	0.139	0.306		
18.7	20.021	34.672	24.51	0.414	0.029	0.026	0.027	0.027	0.052	0.060	0.078	0.136			
23.7	20.019	34.665	24.58	0.415	0.038	0.028	0.028	0.029	0.053	0.061	0.079	0.133			
28.7	20.013	34.670	24.51	0.415	0.032	0.029	0.029	0.029	0.053	0.061	0.081	0.125			
33.6	20.004	34.666	24.51	0.415	0.033	0.038	0.038	0.038	0.053	0.061	0.083	0.119			
38.7	20.008	34.670	24.51	0.415	0.033	0.038	0.038	0.038	0.053	0.064	0.083	0.112			
43.6	19.996	34.668	24.51	0.415	0.035	0.032	0.031	0.031	0.053	0.066	0.081	0.105			
48.5	19.984	34.665	24.51	0.415	0.042	0.036	0.034	0.034	0.055	0.066	0.079	0.097			
53.5	18.929	34.438	24.61	0.427	0.052	0.043	0.039	0.037	0.059	0.066	0.079	0.092			
58.5	15.668	33.912	24.99	0.427	0.065	0.049	0.043	0.048	0.062	0.066	0.080	0.086			
63.4	15.138	33.833	25.04	0.424	0.072	0.053	0.046	0.043	0.062	0.068	0.081	0.077			
68.6	14.923	33.887	25.07	0.420	0.075	0.055	0.048	0.044	0.061	0.068	0.081				
73.4	14.873	33.822	25.09	0.428	0.074	0.061	0.058	0.046	0.062	0.070	0.082				
78.4	14.851	33.835	25.11	0.418	0.074	0.064	0.053	0.048	0.062	0.070	0.082				
83.4	14.957	33.931	25.16	0.417	0.073	0.063	0.055	0.050	0.068	0.067	0.081				
88.4	14.981	33.990	25.22	0.413	0.072	0.060	0.055	0.051	0.059	0.065	0.081				
93.3	14.782	33.966	25.23	0.413	0.072	0.059	0.053	0.050	0.058	0.065					
98.2	14.685	33.998	25.27	0.411	0.071	0.058	0.051	0.048	0.058	0.066					
103.2	14.689	34.027	25.29	0.403	0.068	0.054	0.048	0.045	0.057	0.068					
108.2	14.916	34.896	25.30	0.397	0.066	0.051	0.045	0.043	0.057	0.067					
113.3	14.834	34.131	25.34	0.397	0.064	0.049	0.042	0.041	0.056	0.063					
118.1	14.931	34.194	25.37	0.391	0.061	0.046	0.040	0.038	0.054						
123.3	14.834	34.195	25.39	0.389	0.058	0.043	0.038	0.036	0.051						
128.2	14.577	34.081	25.36	0.386	0.058	0.042	0.036	0.035	0.050						
133.0	13.888	34.044	25.47	0.383	0.059	0.042	0.036	0.035	0.052						
137.9	13.790	34.008	25.47	0.382		0.043	0.037	0.035	0.058						
142.9	13.447	33.993	25.53	0.384		0.045	0.038	0.036							
148.0	13.188	33.993	25.58	0.383		0.046	0.039	0.038							
153.0	13.154	34.122	25.69	0.384		0.047	0.040	0.038							
157.9	12.570	34.020	25.72	0.382		0.047	0.039	0.038							
162.8	12.221	34.058	25.82	0.382		0.046	0.038	0.038							
167.9	11.755	34.005	25.87	0.382		0.045	0.036	0.036							
172.9	11.485	33.948	25.87	0.382		0.043	0.034	0.034							
177.8	11.323	33.954	25.91	0.381		0.038	0.031	0.031							
182.8	11.123	33.965	25.95	0.379		0.031	0.029	0.029							
187.8	10.976	33.920	25.94	0.378		0.028	0.028	0.028							
192.7	10.897	33.985	26.01	0.378		0.024	0.028	0.028							

Cast Label : ODEX 3 STA 63 DN CAST 10-28-82 2213Z

Latitude: 33.447°N Longitude: 141.176°W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Beam Atten Clean water value->	Diffuse Attenuation (/M)										
					418 nM	441 nM	465 nM	488 nM	520 nM	540 nM	560 nM	589 nM	625 nM	671 nM	694 nM
3.8	53.283	118.682	70.15	0.416	0.022	0.021	0.022	0.023	0.049	0.058	0.077	0.141	0.328	0.468	0.558
8.8	19.787	34.179	24.19	0.417	0.024	0.021	0.022	0.023	0.047	0.056	0.074	0.137	0.314		
13.7	19.729	34.172	24.20	0.418	0.025	0.022	0.022	0.023	0.048	0.056	0.074	0.135			
18.6	19.716	34.174	24.21	0.421	0.026	0.023	0.024	0.024	0.048	0.057	0.078	0.133			
23.7	19.709	34.175	24.21	0.419	0.028	0.025	0.025	0.026	0.049	0.059	0.080	0.127			
28.6	19.707	34.173	24.21	0.418	0.029	0.026	0.026	0.027	0.049	0.062	0.080	0.121			
33.6	19.705	34.182	24.22	0.418	0.030	0.027	0.028	0.028	0.051	0.063	0.077	0.115			
38.7	19.704	34.175	24.21	0.418	0.032	0.029	0.029	0.029	0.055	0.063	0.077	0.111			
43.5	19.701	34.180	24.22	0.419	0.042	0.034	0.033	0.032	0.057	0.062	0.077	0.106			
48.6	18.453	34.120	24.49	0.431	0.056	0.041	0.037	0.035	0.057	0.063	0.077	0.100			
53.5	16.534	33.996	24.86	0.432	0.066	0.046	0.041	0.038	0.057	0.064	0.078				
58.6	15.996	33.911	24.91	0.430	0.068	0.053	0.043	0.041	0.058	0.065	0.078				
63.5	15.381	33.919	25.06	0.426	0.069	0.056	0.047	0.044	0.058	0.066	0.078				
68.4	15.014	33.910	25.13	0.424	0.070	0.057	0.058	0.045	0.057	0.065	0.077				
73.4	14.882	33.876	25.15	0.424	0.073	0.056	0.051	0.046	0.058	0.066	0.076				
78.4	14.687	33.908	25.20	0.424	0.075	0.058	0.050	0.046	0.058	0.066	0.076				
83.4	14.712	33.963	25.24	0.423	0.077	0.061	0.052	0.046	0.059	0.067	0.075				
88.5	14.272	34.132	25.46	0.428	0.078	0.062	0.053	0.048	0.058	0.067					
93.3	14.346	33.964	25.32	0.420	0.080	0.064	0.055	0.049	0.058	0.069					
98.2	14.135	33.948	25.34	0.422	0.081	0.064	0.055	0.050	0.057	0.068					
103.2	13.957	33.942	25.38	0.419	0.081	0.063	0.054	0.049	0.056	0.066					
108.3	13.883	33.922	25.38	0.411	0.082	0.060	0.052	0.048	0.057						
113.3	13.792	33.936	25.41	0.406		0.058	0.050	0.046	0.059						
118.2	13.540	33.912	25.44	0.397		0.056	0.047	0.044	0.061						
123.2	13.098	33.857	25.49	0.397		0.052	0.044	0.041	0.058						
128.2	12.635	33.834	25.56	0.394		0.050	0.042	0.039							
133.1	12.369	33.857	25.63	0.392		0.048	0.041	0.038							
138.0	12.220	33.781	25.60	0.389		0.047	0.039	0.038							
142.9	12.013	33.825	25.68	0.389		0.048	0.039	0.037							
148.0	11.774	33.888	25.71	0.387		0.048	0.037	0.037							
153.0	11.598	33.850	25.77	0.385		0.044	0.035	0.036							
158.1	11.415	33.812	25.78	0.385			0.034	0.034							
163.0	11.201	33.842	25.84	0.384			0.034	0.032							
167.9	11.029	33.871	25.89	0.383			0.034	0.030							
172.9	10.873	33.917	25.96	0.382			0.033	0.029							
177.9	10.812	33.930	25.98	0.382			0.032	0.031							
182.8	10.701	33.955	26.02	0.381			0.029	0.032							
187.8	10.615	33.966	26.04	0.380			0.029	0.033							
192.8	10.526	33.976	26.07	0.381			0.027	0.031							

Cast Label : ODEX 3 STA 66 DN CAST 10-29-82 20552

Latitude: 33.3343N Longitude: 141.3892W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Beam Atten Clean water value->	Diffuse Attenuation (/M)										
					410 nM	441 nM	465 nM	488 nM	528 nM	540 nM	560 nM	589 nM	625 nM	671 nM	694 nM
3.9	53.273	119.654	78.81	0.454	0.024	0.019	0.020	0.021	0.043	0.050	0.068	0.127	0.306	0.439	0.521
8.7	19.782	34.337	24.32	0.417	0.023	0.021	0.021	0.021	0.045	0.053	0.070	0.131	0.307		
13.8	19.783	34.340	24.32	0.417	0.024	0.022	0.022	0.022	0.046	0.054	0.071	0.131			
18.7	19.783	34.335	24.31	0.428	0.027	0.024	0.024	0.024	0.047	0.055	0.075	0.128			
23.7	19.782	34.337	24.32	0.416	0.029	0.026	0.026	0.027	0.049	0.058	0.079	0.124			
28.8	19.784	34.340	24.32	0.416	0.031	0.028	0.028	0.028	0.050	0.063	0.081	0.120			
33.6	19.786	34.341	24.32	0.417	0.032	0.030	0.030	0.030	0.053	0.065	0.079	0.115			
38.7	19.783	34.342	24.32	0.415	0.034	0.031	0.031	0.031	0.056	0.065	0.079	0.110			
43.6	19.784	34.338	24.32	0.416	0.037	0.033	0.033	0.032	0.058	0.064	0.079	0.104			
48.7	19.751	34.336	24.32	0.414	0.046	0.037	0.036	0.035	0.058	0.064	0.079	0.099			
53.5	19.468	34.329	24.39	0.421	0.057	0.044	0.041	0.039	0.059	0.066	0.081	0.099			
58.5	17.237	33.982	24.68	0.428	0.066	0.053	0.045	0.044	0.061	0.068	0.082				
63.4	15.979	33.999	24.98	0.426	0.070	0.059	0.051	0.049	0.062	0.070	0.083				
68.4	15.334	33.923	25.07	0.422	0.074	0.062	0.055	0.051	0.064	0.073	0.084				
73.4	15.898	33.923	25.12	0.423	0.077	0.062	0.057	0.052	0.066	0.076	0.087				
78.4	14.993	33.932	25.15	0.420	0.080	0.064	0.056	0.052	0.067	0.077	0.090				
83.4	14.562	33.919	25.24	0.420	0.081	0.065	0.056	0.051	0.065	0.077					
88.4	14.411	33.934	25.28	0.421	0.081	0.065	0.055	0.050	0.063	0.075					
93.2	14.262	33.951	25.32	0.422	0.079	0.064	0.054	0.049	0.068	0.069					
98.3	14.133	33.920	25.33	0.426	0.076	0.062	0.052	0.047	0.056	0.062					
103.1	13.981	33.985	25.35	0.427	0.074	0.059	0.050	0.045	0.055						
108.3	13.895	33.914	25.37	0.416	0.074	0.057	0.048	0.044	0.055						
113.1	13.852	33.938	25.40	0.411	0.073	0.056	0.047	0.043	0.057						
118.2	13.724	33.934	25.42	0.407		0.055	0.046	0.043	0.059						
123.3	13.543	33.982	25.44	0.397		0.054	0.045	0.043							
128.1	13.168	33.918	25.52	0.396		0.053	0.044	0.043							
133.1	12.969	33.833	25.50	0.395		0.052	0.042	0.042							
138.0	12.626	33.846	25.58	0.392		0.049	0.041	0.041							
143.0	12.393	33.814	25.68	0.390		0.048	0.040	0.039							
147.9	12.283	33.888	25.67	0.390		0.048	0.039	0.038							
153.0	11.989	33.848	25.69	0.388		0.047	0.037	0.039							
157.9	11.540	33.844	25.78	0.386		0.037	0.040								
162.9	11.213	33.886	25.81	0.383		0.037	0.040								
167.9	11.047	33.842	25.87	0.382		0.036	0.040								
172.9	10.987	33.875	25.91	0.382		0.037	0.037								
177.8	10.882	33.891	25.95	0.382		0.037	0.039								
182.7	10.694	33.893	25.97	0.381		0.035									
187.9	10.594	33.927	26.01	0.380		0.032									
192.7	10.539	33.948	26.04	0.379		0.029									

Cast Label : ODEX 3 STA 66 UP CAST 10-29-82 2119Z

Latitude: 33.3343N Longitude: 141.3892W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Beam Atten Clean water value->	Diffuse Attenuation (/M)										
					410 nM	441 nM	465 nM	488 nM	520 nM	540 nM	568 nM	589 nM	625 nM	671 nM	694 nM
3.9	53.272	119.825	70.93	0.412	0.023	0.020	0.021	0.021	0.047	0.055	0.073	0.137	0.329	0.471	0.548
8.8	19.781	34.347	24.32	0.413	0.023	0.020	0.020	0.021	0.045	0.053	0.072	0.135	0.322		
13.7	19.780	34.344	24.32	0.412	0.023	0.020	0.020	0.021	0.044	0.052	0.073	0.129			
18.7	19.779	34.344	24.32	0.412	0.023	0.020	0.021	0.021	0.043	0.052	0.073	0.121			
23.8	19.778	34.342	24.32	0.412	0.024	0.021	0.021	0.021	0.043	0.055	0.073	0.116			
28.7	19.780	34.344	24.32	0.413	0.025	0.022	0.022	0.023	0.046	0.057	0.072	0.113			
33.6	19.781	34.341	24.32	0.410	0.026	0.024	0.024	0.024	0.050	0.057	0.072	0.109			
38.7	19.775	34.342	24.32	0.411	0.031	0.026	0.025	0.026	0.052	0.056	0.073	0.106			
43.6	19.737	34.338	24.33	0.408	0.037	0.028	0.028	0.028	0.052	0.058	0.075	0.105			
48.5	19.702	34.316	24.32	0.408	0.043	0.033	0.032	0.031	0.052	0.060	0.077	0.102			
53.5	19.218	34.262	24.41	0.418	0.050	0.041	0.036	0.035	0.054	0.062	0.078				
58.5	16.786	34.412	25.12	0.423	0.057	0.049	0.041	0.040	0.055	0.061	0.078				
63.5	15.738	34.024	25.06	0.421	0.064	0.054	0.046	0.043	0.056	0.062	0.078				
68.4	15.132	33.976	25.16	0.417	0.069	0.055	0.050	0.045	0.057	0.063	0.080				
73.4	14.934	33.946	25.18	0.416	0.073	0.057	0.050	0.045	0.059	0.066	0.085				
78.4	14.652	33.964	25.25	0.417	0.075	0.059	0.050	0.046	0.060	0.066					
83.4	14.583	33.938	25.24	0.413	0.077	0.061	0.052	0.047	0.061	0.066					
88.5	14.373	33.933	25.29	0.417	0.079	0.063	0.054	0.049	0.063	0.065					
93.4	14.179	33.933	25.33	0.420	0.081	0.066	0.057	0.051	0.064	0.067					
98.3	13.973	33.907	25.35	0.422	0.081	0.066	0.057	0.052	0.065	0.073					
103.1	13.801	33.873	25.36	0.415	0.079	0.064	0.056	0.052	0.066						
108.2	13.828	33.972	25.43	0.404	0.076	0.062	0.053	0.051	0.070						
113.3	13.680	33.942	25.44	0.397	0.073	0.058	0.051	0.049	0.072						
118.2	13.491	33.926	25.46	0.397		0.055	0.048	0.047							
123.2	13.297	33.989	25.49	0.393		0.053	0.047	0.046							
128.1	12.915	33.904	25.56	0.391		0.052	0.046	0.046							
133.0	12.442	33.787	25.57	0.387		0.051	0.045	0.046							
137.9	12.469	33.844	25.60	0.387		0.050	0.044	0.046							
142.9	12.295	33.851	25.64	0.386		0.050	0.042	0.045							
148.0	11.956	33.850	25.71	0.384			0.039	0.044							
153.0	11.588	33.845	25.77	0.382			0.037	0.043							
158.0	11.286	33.814	25.80	0.382			0.034	0.042							
162.9	11.164	33.843	25.85	0.381			0.036	0.042							
167.9	11.055	33.851	25.87	0.380			0.033	0.043							
172.9	10.838	33.892	25.94	0.378			0.034								
177.9	10.740	33.889	25.96	0.378			0.030								
182.8	10.667	33.938	26.00	0.377											
187.9	10.549	33.950	26.04	0.375											
192.8	10.445	33.984	26.09	0.374											

Cast Label : ODEX 3 STA 72 DN CAST 10-31-82 1844Z

Latitude: 31.2648N Longitude: 141.3676W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Beam Atten	Diffuse Attenuation (/M)										
					410 nM	441 nM	465 nM	488 nM	520 nM	540 nM	560 nM	589 nM	625 nM	671 nM	694 nM
					Clean water value->	0.017	0.015	0.016	0.020	0.048	0.055	0.071	0.107	0.244	0.468
3.7	53.561	137.516	82.17	0.710	0.023	0.022	0.021	0.021	0.047	0.056	0.075	0.145	0.344	0.496	0.586
8.8	21.407	35.120	24.48	0.409	0.024	0.022	0.022	0.023	0.049	0.058	0.078	0.144	0.336		
13.7	21.397	35.111	24.47	0.408	0.027	0.024	0.024	0.025	0.051	0.060	0.079	0.143	0.384		
18.6	21.394	35.092	24.46	0.408	0.029	0.026	0.026	0.027	0.052	0.061	0.079	0.140			
23.8	21.394	35.094	24.46	0.408	0.030	0.028	0.028	0.029	0.054	0.063	0.084	0.138			
28.6	21.394	35.115	24.48	0.407	0.032	0.030	0.030	0.030	0.054	0.063	0.086	0.129			
33.6	21.394	35.112	24.48	0.407	0.032	0.030	0.030	0.031	0.054	0.065	0.085	0.119			
38.6	21.394	35.129	24.49	0.407	0.032	0.030	0.031	0.031	0.054	0.067	0.082	0.110			
43.5	21.395	35.111	24.47	0.407	0.034	0.032	0.032	0.032	0.055	0.068	0.081	0.104			
48.6	21.390	35.121	24.48	0.407	0.038	0.035	0.034	0.033	0.059	0.066	0.088	0.095			
53.5	21.029	35.170	24.62	0.410	0.048	0.040	0.038	0.036	0.060	0.066	0.079	0.085			
58.5	19.583	34.619	24.58	0.413	0.059	0.045	0.041	0.039	0.060	0.067	0.079	0.078			
63.4	18.386	34.666	24.92	0.413	0.066	0.049	0.044	0.041	0.060	0.068	0.079				
68.4	17.857	34.674	25.06	0.411	0.067	0.053	0.046	0.043	0.061	0.070	0.080				
73.4	17.856	34.649	25.04	0.408	0.065	0.057	0.047	0.044	0.060	0.069	0.078				
78.4	17.355	34.550	25.09	0.410	0.064	0.057	0.050	0.046	0.059	0.069	0.074				
83.5	17.324	34.585	25.12	0.406	0.063	0.054	0.051	0.047	0.058	0.068	0.072				
88.4	17.679	34.757	25.17	0.398	0.064	0.054	0.051	0.047	0.058	0.068	0.071				
93.3	17.591	34.738	25.17	0.398	0.064	0.054	0.048	0.046	0.057	0.067					
98.2	17.476	34.741	25.20	0.397	0.063	0.053	0.048	0.045	0.057	0.069					
103.3	17.348	34.702	25.21	0.398	0.062	0.052	0.047	0.044	0.056	0.071					
108.2	17.114	34.678	25.24	0.397	0.061	0.051	0.046	0.044	0.056	0.070					
113.3	16.792	34.598	25.26	0.397	0.060	0.050	0.045	0.043	0.055						
118.2	16.714	34.598	25.28	0.397	0.059	0.049	0.044	0.042	0.052						
123.2	16.667	34.588	25.28	0.396	0.058	0.047	0.042	0.041	0.054						
128.1	16.584	34.586	25.30	0.395	0.057	0.045	0.040	0.039	0.053						
133.0	16.569	34.576	25.29	0.393	0.053	0.042	0.038	0.037	0.056						
138.0	16.425	34.571	25.32	0.390	0.049	0.041	0.036	0.035	0.050						
143.0	16.484	34.686	25.34	0.388	0.049	0.040	0.035	0.033							
148.0	16.419	34.558	25.31	0.387		0.038	0.033	0.033							
153.0	16.199	34.569	25.37	0.386		0.038	0.033	0.032							
158.0	16.058	34.537	25.38	0.386		0.039	0.032	0.032							
162.9	15.813	34.538	25.44	0.384		0.039	0.032	0.031							
167.9	15.505	34.539	25.51	0.383		0.039	0.032	0.031							
172.8	15.293	34.432	25.47	0.384		0.039	0.033	0.031							
177.8	15.035	34.405	25.51	0.383		0.039	0.032	0.031							
182.8	14.788	34.342	25.52	0.383		0.040	0.031	0.031							
187.8	14.378	34.321	25.59	0.382		0.042	0.032	0.031							
192.7	13.783	34.320	25.71	0.382		0.046	0.032	0.031							

Cast Label : ODEX 3 STA 73 ON CAST 10-31-82 2352Z

Latitude: 31.0268N Longitude: 141.3498W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Beam Atten	Diffuse Attenuation (/M)										
					410 nM	441 nM	465 nM	488 nM	520 nM	540 nM	560 nM	589 nM	625 nM	671 nM	694 nM
		Clean water value->		0.017	0.015	0.016	0.016	0.017	0.016	0.016	0.016	0.017	0.017	0.017	0.017
3.7	53.534	33.883	79.33	0.417	0.015	0.014	0.016	0.017	0.043	0.052	0.071	0.139	0.327	0.468	0.552
8.7	21.021	34.971	24.47	0.414	0.016	0.014	0.015	0.016	0.041	0.049	0.069	0.133	0.312		
13.7	21.021	34.955	24.46	0.415	0.017	0.015	0.015	0.016	0.039	0.049	0.069	0.124			
18.6	20.987	34.968	24.48	0.415	0.018	0.016	0.016	0.017	0.039	0.051	0.070	0.118			
23.7	20.959	34.978	24.49	0.417	0.020	0.018	0.018	0.019	0.042	0.054	0.069	0.115			
28.7	20.955	34.956	24.48	0.416	0.023	0.020	0.021	0.021	0.047	0.056	0.070	0.114			
33.5	20.954	34.969	24.49	0.416	0.025	0.023	0.023	0.023	0.050	0.056	0.071	0.111			
38.7	20.957	34.973	24.49	0.418	0.032	0.025	0.025	0.025	0.051	0.057	0.073	0.110			
43.6	20.968	34.976	24.49	0.418	0.036	0.028	0.028	0.028	0.051	0.059	0.074	0.104			
48.6	20.942	34.981	24.50	0.416	0.040	0.031	0.031	0.030	0.052	0.060	0.075				
53.5	20.648	34.990	24.59	0.421	0.042	0.037	0.033	0.034	0.052	0.061	0.074				
58.6	19.624	34.940	24.82	0.424	0.047	0.042	0.037	0.036	0.051	0.060	0.072				
63.5	19.241	34.850	24.85	0.422	0.051	0.045	0.040	0.038	0.051	0.059	0.070				
68.5	18.447	34.780	25.00	0.419	0.055	0.045	0.043	0.038	0.052	0.060	0.069				
73.4	18.413	34.777	25.00	0.418	0.058	0.047	0.042	0.038	0.053	0.061	0.070				
78.4	18.092	34.726	25.04	0.414	0.059	0.049	0.042	0.039	0.053	0.062	0.071				
83.4	17.614	34.665	25.11	0.414	0.061	0.051	0.044	0.041	0.054	0.066					
88.5	17.481	34.657	25.14	0.412	0.064	0.053	0.046	0.043	0.055	0.069					
93.3	17.258	34.593	25.14	0.409	0.064	0.054	0.048	0.044	0.055	0.069					
98.3	16.939	34.589	25.22	0.412	0.063	0.053	0.047	0.044	0.055	0.064					
103.2	16.873	34.564	25.21	0.418	0.061	0.052	0.046	0.043	0.053						
108.2	16.849	34.608	25.25	0.401	0.059	0.050	0.045	0.042	0.053						
113.2	16.811	34.596	25.25	0.397	0.058	0.049	0.044	0.041	0.053						
118.2	16.824	34.613	25.26	0.397	0.058	0.048	0.043	0.040	0.053						
123.3	16.749	34.626	25.29	0.398	0.057	0.046	0.041	0.038	0.056						
128.1	16.721	34.629	25.30	0.395	0.056	0.043	0.038	0.036							
132.9	16.582	34.607	25.31	0.393	0.053	0.040	0.035	0.034							
138.0	16.385	34.571	25.33	0.389		0.038	0.033	0.032							
143.0	16.297	34.567	25.35	0.388		0.037	0.031	0.030							
148.0	16.126	34.511	25.35	0.386		0.035	0.030	0.029							
153.0	15.930	34.527	25.40	0.384		0.033	0.029	0.028							
158.0	15.823	34.586	25.41	0.384		0.034	0.028	0.027							
163.0	15.726	34.477	25.41	0.384		0.034	0.026	0.025							
167.9	15.739	34.507	25.43	0.384		0.035	0.025	0.024							
172.8	15.515	34.496	25.47	0.384		0.036	0.026	0.025							
177.9	15.181	34.452	25.51	0.382		0.030	0.030								
182.8	14.878	34.382	25.52	0.382		0.035	0.035								
187.8	14.632	34.379	25.58	0.382		0.036	0.036								
192.8	14.231	34.309	25.61	0.382		0.040	0.038								

Cast Label : ODEX 3 STA 73 UP CAST 18-31-82 2359Z

Latitude: 31.0260N Longitude: 141.3490W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Beam Atten Clean water value->	Diffuse Attenuation (/M)										
					410 nM	441 nM	465 nM	488 nM	520 nM	540 nM	560 nM	589 nM	625 nM	671 nM	694 nM
3.9	53.534	133.137	79.37	0.413	0.023	0.020	0.021	0.022	0.049	0.058	0.077	0.143	0.338	0.483	0.571
8.8	21.043	34.974	24.47	0.412	0.024	0.022	0.023	0.024	0.049	0.058	0.076	0.142	0.326		
13.7	21.016	34.973	24.47	0.412	0.026	0.024	0.025	0.026	0.051	0.059	0.079	0.139			
18.6	20.999	34.973	24.48	0.413	0.028	0.026	0.027	0.028	0.052	0.061	0.083	0.136			
23.8	20.968	34.977	24.49	0.414	0.029	0.027	0.028	0.029	0.053	0.065	0.084	0.138			
28.7	20.962	34.970	24.49	0.413	0.030	0.028	0.029	0.029	0.054	0.066	0.082	0.125			
33.5	20.962	34.966	24.48	0.414	0.030	0.028	0.029	0.029	0.055	0.064	0.079	0.120			
38.6	20.962	34.975	24.49	0.414	0.031	0.028	0.029	0.029	0.056	0.062	0.078	0.116			
43.6	20.946	34.983	24.50	0.414	0.036	0.030	0.029	0.030	0.055	0.061	0.077	0.112			
48.5	20.908	35.006	24.53	0.418	0.041	0.032	0.031	0.031	0.054	0.061	0.077				
53.5	20.417	35.038	24.68	0.418	0.047	0.036	0.035	0.034	0.054	0.062	0.077				
58.5	19.418	34.964	24.89	0.421	0.049	0.043	0.036	0.037	0.054	0.061	0.075				
63.5	18.882	34.841	24.95	0.420	0.053	0.047	0.041	0.039	0.054	0.060	0.074				
68.5	18.381	34.777	25.01	0.417	0.056	0.049	0.044	0.041	0.054	0.061	0.075				
73.4	18.282	34.758	25.01	0.415	0.059	0.049	0.046	0.041	0.056	0.063	0.076				
78.4	17.692	34.741	25.15	0.414	0.061	0.050	0.045	0.042	0.056	0.063	0.077				
83.4	17.568	34.699	25.15	0.410	0.063	0.052	0.046	0.043	0.056	0.065					
88.4	17.301	34.657	25.18	0.408	0.064	0.054	0.048	0.045	0.057	0.067					
93.4	16.911	34.645	25.27	0.410	0.065	0.056	0.050	0.047	0.058	0.065					
98.4	16.754	34.548	25.23	0.409	0.065	0.056	0.051	0.048	0.060	0.063					
103.2	16.775	34.534	25.21	0.406	0.063	0.055	0.050	0.048	0.060						
108.3	16.823	34.586	25.24	0.401	0.062	0.053	0.048	0.047	0.060						
113.1	16.810	34.609	25.26	0.397	0.060	0.050	0.046	0.045	0.058						
118.1	16.807	34.612	25.26	0.397	0.058	0.048	0.044	0.043	0.058						
123.2	16.744	34.612	25.28	0.396	0.056	0.046	0.042	0.040							
128.2	16.545	34.701	25.39	0.392	0.055	0.044	0.040	0.039							
133.0	16.339	34.587	25.35	0.387	0.053	0.041	0.037	0.037							
138.0	16.307	34.552	25.34	0.387		0.039	0.035	0.035							
142.9	16.194	34.539	25.35	0.385		0.038	0.034	0.034							
148.0	16.110	34.512	25.35	0.384		0.039	0.035	0.034							
153.0	15.910	34.512	25.40	0.383		0.038	0.035	0.034							
158.0	15.832	34.508	25.41	0.382		0.038	0.034	0.034							
162.9	15.792	34.511	25.42	0.383		0.039	0.034	0.033							
167.9	15.782	34.519	25.45	0.383		0.039	0.033	0.032							
172.8	15.272	34.486	25.52	0.382			0.034	0.031							
177.9	15.012	34.404	25.51	0.382			0.031	0.030							
182.7	14.776	34.360	25.53	0.382			0.028	0.029							
187.8	14.235	34.360	25.65	0.380			0.025	0.029							
192.8	14.031	34.306	25.65	0.380			0.021	0.029							

Cast Label : ODEX 3 STA 77B UP CAST 11-1-82 2133Z

Latitude: 30.0210N Longitude: 141.2210W

Z-ave M	Temp deg C	Sal. ppt	Dens.	Beam &T Atten Clean water value->	Diffuse Attenuation (<math>\text{m}^{-1}</math>)										
					410 nm	441 nm	465 nm	488 nm	520 nm	548 nm	568 nm	589 nm	625 nm	671 nm	694 nm
3.9	53.560	135.718	81.01	0.410	0.024	0.022	0.024	0.025	0.051	0.060	0.078	0.142	0.326	0.464	0.552
8.7	21.258	34.991	24.42	0.412	0.024	0.022	0.023	0.025	0.050	0.058	0.076	0.138	0.317		
13.7	21.210	34.989	24.43	0.414	0.024	0.022	0.023	0.024	0.049	0.057	0.075	0.136	0.305		
18.7	21.210	34.987	24.43	0.414	0.025	0.023	0.024	0.025	0.049	0.057	0.077	0.132			
23.8	21.204	34.994	24.44	0.415	0.027	0.024	0.025	0.026	0.049	0.057	0.079	0.126			
28.7	21.063	34.988	24.47	0.415	0.028	0.025	0.026	0.026	0.049	0.060	0.078	0.120			
33.6	21.009	34.981	24.48	0.418	0.029	0.026	0.027	0.027	0.049	0.062	0.076	0.115			
38.7	20.913	34.986	24.51	0.417	0.030	0.027	0.028	0.028	0.051	0.061	0.074	0.111			
43.5	20.889	34.969	24.58	0.416	0.031	0.028	0.028	0.028	0.054	0.060	0.075	0.108			
48.5	20.857	34.973	24.52	0.414	0.032	0.030	0.029	0.029	0.054	0.060	0.075	0.104			
53.5	20.812	34.947	24.51	0.415	0.039	0.032	0.032	0.031	0.054	0.060	0.075				
58.5	20.207	35.239	24.89	0.419	0.048	0.037	0.034	0.033	0.053	0.060	0.074				
63.4	18.943	34.837	24.91	0.424	0.056	0.041	0.038	0.036	0.054	0.062	0.075				
68.4	18.476	34.756	24.97	0.420	0.056	0.047	0.039	0.039	0.054	0.062	0.075				
73.4	18.195	34.726	25.02	0.417	0.056	0.050	0.043	0.041	0.054	0.061	0.073				
78.5	17.996	34.705	25.05	0.416	0.057	0.058	0.045	0.042	0.055	0.061	0.073				
83.5	17.807	34.683	25.08	0.415	0.060	0.051	0.048	0.043	0.056	0.062	0.075				
88.5	17.762	34.699	25.10	0.415	0.063	0.052	0.047	0.043	0.057	0.063					
93.3	17.285	34.598	25.13	0.414	0.064	0.054	0.048	0.044	0.057	0.065					
98.3	17.128	34.672	25.23	0.413	0.065	0.055	0.049	0.045	0.057	0.066					
103.2	16.625	34.539	25.25	0.416	0.066	0.056	0.049	0.045	0.056	0.063					
108.3	16.469	34.571	25.31	0.411	0.066	0.056	0.049	0.045	0.056						
113.2	16.313	34.487	25.28	0.408	0.065	0.055	0.048	0.045	0.056						
118.1	16.226	34.480	25.30	0.397	0.063	0.053	0.047	0.044	0.058						
123.2	15.989	34.502	25.37	0.397	0.068	0.058	0.044	0.043	0.059						
128.1	15.818	34.412	25.34	0.395	0.058	0.047	0.042	0.041	0.055						
133.0	15.924	34.416	25.32	0.393	0.055	0.044	0.039	0.038							
137.9	15.989	34.495	25.38	0.398	0.052	0.041	0.036	0.035							
143.0	15.732	34.487	25.42	0.387		0.039	0.034	0.033							
148.0	15.416	34.428	25.44	0.387		0.038	0.033	0.032							
153.0	15.112	34.432	25.51	0.387		0.038	0.033	0.031							
158.0	14.998	34.354	25.48	0.387		0.040	0.034	0.031							
162.9	14.663	34.448	25.62	0.385		0.039	0.034	0.031							
167.9	14.240	34.331	25.62	0.384		0.039	0.034	0.032							
172.8	14.071	34.208	25.56	0.383		0.038	0.034	0.033							
177.9	13.683	34.214	25.65	0.383		0.040	0.034	0.034							
182.9	13.899	34.249	25.79	0.382		0.039	0.035	0.033							
187.8	12.954	34.127	25.73	0.382		0.039	0.035	0.033							
192.8	12.579	34.140	25.81	0.382		0.039	0.039	0.032							

Cast Label : ODEX 3 STA 79 UP CAST 11-2-82 1920Z

Latitude: 30.5753N Longitude: 149.5419W

Z-ave M	Temp deg C	Sal. ppt	Dens.	Beam &T Atten Clean water value->	Diffuse Attenuation (/M)										
					410 nM	441 nM	465 nM	488 nM	520 nM	540 nM	560 nM	589 nM	625 nM	671 nM	694 nM
4.8	53.565	136.240	81.34	0.484	0.026	0.024	0.025	0.027	0.052	0.060	0.079	0.143	0.327	0.464	0.540
8.6	21.410	34.979	24.37	0.484	0.026	0.024	0.025	0.026	0.051	0.060	0.078	0.138	0.318		
13.7	21.400	35.098	24.46	0.486	0.026	0.024	0.025	0.026	0.051	0.059	0.077	0.136	0.304		
18.6	21.389	35.134	24.49	0.487	0.027	0.025	0.025	0.026	0.050	0.058	0.076	0.132			
23.8	21.382	35.128	24.49	0.487	0.027	0.025	0.026	0.026	0.050	0.057	0.077	0.126			
28.7	21.375	35.131	24.49	0.487	0.028	0.025	0.026	0.026	0.049	0.056	0.078	0.117			
33.6	21.375	35.135	24.50	0.487	0.029	0.026	0.026	0.026	0.047	0.057	0.076	0.118			
38.6	21.370	35.148	24.51	0.486	0.030	0.027	0.027	0.027	0.047	0.060	0.074	0.104			
43.6	21.354	35.178	24.54	0.485	0.033	0.030	0.029	0.029	0.050	0.062	0.074	0.098			
48.6	20.860	35.340	24.79	0.405	0.039	0.034	0.032	0.031	0.055	0.061	0.075	0.090			
53.5	20.294	35.185	24.77	0.408	0.044	0.038	0.035	0.034	0.057	0.061	0.075	0.083			
58.5	19.862	34.969	24.78	0.408	0.052	0.041	0.037	0.035	0.055	0.061	0.075	0.076			
63.5	19.195	34.866	24.87	0.408	0.056	0.042	0.038	0.036	0.054	0.061	0.075				
68.5	19.061	34.805	24.86	0.406	0.057	0.043	0.038	0.036	0.053	0.060	0.074				
73.4	18.852	34.801	24.91	0.406	0.054	0.046	0.038	0.036	0.053	0.060	0.073				
78.4	18.624	34.812	24.98	0.398	0.054	0.047	0.038	0.036	0.051	0.058	0.071				
83.4	18.484	34.838	25.02	0.397	0.054	0.047	0.041	0.037	0.050	0.056	0.070				
88.4	18.329	34.818	25.05	0.397	0.055	0.045	0.043	0.038	0.049	0.056	0.071				
93.3	18.126	34.835	25.12	0.397	0.058	0.047	0.044	0.040	0.051	0.058					
98.3	17.894	34.753	25.11	0.397	0.059	0.048	0.043	0.041	0.053	0.059					
103.2	17.659	34.711	25.14	0.397	0.061	0.051	0.045	0.043	0.056	0.063					
108.1	17.579	34.655	25.11	0.395	0.062	0.051	0.046	0.044	0.058	0.063					
113.2	17.336	34.642	25.16	0.392	0.062	0.051	0.046	0.044	0.059	0.061					
118.3	17.532	34.653	25.12	0.390	0.061	0.049	0.044	0.043	0.059	0.061					
123.1	17.572	34.774	25.21	0.390	0.058	0.046	0.041	0.040	0.058						
128.1	17.161	34.700	25.25	0.388	0.056	0.043	0.037	0.037	0.056						
133.0	16.884	34.675	25.30	0.386	0.055	0.040	0.034	0.034	0.054						
137.9	16.607	34.617	25.32	0.384	0.055	0.039	0.034	0.034	0.060						
143.0	16.385	34.558	25.32	0.384	0.055	0.042	0.036	0.036							
148.0	15.664	34.463	25.41	0.382		0.045	0.040	0.040							
153.1	15.385	34.425	25.46	0.382		0.049	0.044	0.044							
157.9	15.048	34.338	25.45	0.381		0.053	0.048	0.048							
163.0	14.994	34.352	25.48	0.382		0.053	0.049	0.049							
167.8	14.709	34.319	25.51	0.381		0.053	0.049	0.050							
172.9	14.344	34.279	25.56	0.380		0.054	0.049	0.051							
177.9	13.923	34.235	25.62	0.380		0.060	0.052	0.056							
182.8	13.448	34.132	25.63	0.378			0.056	0.063							
187.8	13.068	34.113	25.70	0.378		0.063	0.057	0.062							

Cast Label : ODEX 3 STA 84 DN CAST 11-3-82 20182

Latitude: 32.5946N Longitude: 140.4784W

7-ave M	Temp deg C	Sal. ppt	Dens. &T	Beam Atten Clean water value->	Diffuse Attenuation (/M)										
					410 nM	441 nM	465 nM	488 nM	520 nM	540 nM	560 nM	589 nM	625 nM	671 nM	694 nM
3.9	53.586	133.115	79.39	0.451	0.024	0.021	0.020	0.020	0.045	0.054	0.072	0.139	0.329	0.475	0.569
8.8	20.822	35.102	24.62	0.412	0.024	0.021	0.020	0.021	0.046	0.054	0.073	0.136	0.322	0.422	
13.7	20.823	35.093	24.62	0.411	0.024	0.021	0.021	0.021	0.046	0.055	0.073	0.136	0.298		
18.7	20.819	35.086	24.61	0.411	0.026	0.022	0.021	0.021	0.045	0.054	0.071	0.131	0.241		
23.7	20.818	35.084	24.61	0.411	0.026	0.022	0.022	0.022	0.045	0.053	0.070	0.125			
28.8	20.818	35.087	24.61	0.411	0.028	0.024	0.023	0.023	0.046	0.053	0.074	0.117			
33.5	20.819	35.086	24.61	0.411	0.029	0.025	0.025	0.025	0.048	0.057	0.079	0.115			
38.6	20.818	35.086	24.61	0.411	0.031	0.027	0.027	0.027	0.050	0.061	0.080	0.110			
43.6	20.816	35.086	24.61	0.411	0.032	0.029	0.029	0.029	0.050	0.064	0.078	0.103			
48.6	20.816	35.088	24.61	0.410	0.033	0.030	0.030	0.030	0.053	0.065	0.078	0.095			
53.5	20.813	35.098	24.62	0.411	0.034	0.032	0.031	0.031	0.057	0.064	0.078	0.089			
58.5	20.801	35.087	24.62	0.411	0.040	0.036	0.034	0.034	0.058	0.064	0.078	0.081			
63.4	20.712	35.099	24.65	0.410	0.052	0.042	0.038	0.036	0.057	0.064	0.076	0.077			
68.5	19.111	34.912	24.93	0.418	0.062	0.047	0.042	0.039	0.056	0.064	0.075				
73.4	18.694	34.929	25.05	0.416	0.066	0.051	0.045	0.041	0.058	0.065	0.074				
78.2	18.187	34.888	25.14	0.414	0.064	0.056	0.046	0.043	0.058	0.067	0.074				
83.4	17.928	34.889	25.15	0.411	0.063	0.057	0.049	0.045	0.058	0.067	0.072				
88.5	17.793	34.765	25.15	0.409	0.062	0.055	0.050	0.046	0.057	0.066	0.069				
93.3	17.578	34.718	25.16	0.407	0.062	0.053	0.051	0.046	0.056	0.067	0.067				
98.3	17.479	34.728	25.19	0.407	0.063	0.054	0.049	0.046	0.057	0.069					
103.2	17.318	34.708	25.22	0.407	0.064	0.054	0.049	0.045	0.057	0.071					
108.2	17.051	34.651	25.24	0.405	0.063	0.053	0.048	0.045	0.056	0.070					
113.3	16.941	34.642	25.26	0.401	0.063	0.052	0.047	0.045	0.056	0.069					
118.0	16.841	34.641	25.28	0.400	0.063	0.051	0.046	0.044	0.056						
123.2	16.775	34.629	25.29	0.397	0.062	0.050	0.045	0.043	0.055						
128.1	16.703	34.625	25.30	0.397	0.059	0.049	0.043	0.042	0.055						
133.0	16.495	34.610	25.34	0.395	0.057	0.047	0.042	0.040	0.058						
138.0	16.401	34.573	25.33	0.394	0.056	0.045	0.041	0.039	0.049						
142.9	16.388	34.586	25.34	0.394	0.059	0.045	0.039	0.038							
148.0	16.259	34.552	25.35	0.392		0.044	0.039	0.037							
153.0	15.871	34.487	25.38	0.390		0.042	0.037	0.035							
158.0	15.463	34.376	25.39	0.389		0.040	0.035	0.034							
163.0	15.315	34.430	25.47	0.384		0.040	0.034	0.033							
167.9	15.220	34.414	25.47	0.384		0.040	0.033	0.031							
172.9	14.968	34.367	25.49	0.384		0.039	0.031	0.028							
177.8	14.596	34.333	25.55	0.383		0.037	0.029	0.026							
182.8	14.207	34.296	25.60	0.382		0.036	0.025	0.022							

SHORT DATA FILE

Cast Label : ODEX 3 STA 105 DN CAST 11-5-82 20032

Latitude: 32.4650N Longitude: 141.2380W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Beam Atten	Diffuse Attenuation (1/M)										
					410 nM	441 nM	465 nM	488 nM	520 nM	540 nM	560 nM	589 nM	625 nM	671 nM	694 nM
		Clean water value->			0.017	0.015	0.016	0.020	0.048	0.055	0.071	0.107	0.244	0.460	0.600
3.9	53.526	65.838	33.86	0.414	0.029	0.027	0.028	0.029	0.057	0.066	0.086	0.155	0.354	0.503	0.588
8.8	20.979	23.708	15.93	0.415	0.031	0.028	0.028	0.029	0.055	0.063	0.083	0.147	0.338	0.422	
13.6	20.977	24.351	16.41	0.415	0.032	0.028	0.028	0.029	0.054	0.062	0.081	0.142	0.312		
18.7	20.977	24.306	16.38	0.416	0.030	0.028	0.028	0.029	0.054	0.062	0.080	0.139			
23.8	20.976	24.497	16.53	0.415	0.030	0.027	0.028	0.029	0.053	0.061	0.081	0.133			
28.8	20.976	25.034	16.93	0.415	0.028	0.026	0.027	0.028	0.052	0.061	0.083	0.126			
33.6	20.972	25.312	17.14	0.415	0.028	0.025	0.026	0.026	0.050	0.059	0.081	0.117			
38.7	20.972	25.720	17.45	0.414	0.028	0.024	0.024	0.024	0.046	0.057	0.075	0.105			
43.6	20.971	25.931	17.61	0.415	0.029	0.025	0.024	0.024	0.044	0.057	0.078	0.095			
48.6	20.972	25.789	17.51	0.414	0.030	0.027	0.026	0.026	0.049	0.059	0.074	0.092			
53.5	20.973	26.044	17.70	0.415	0.032	0.030	0.030	0.030	0.056	0.063	0.079	0.091			
58.5	20.974	26.075	17.72	0.414	0.037	0.034	0.034	0.034	0.059	0.064	0.081	0.090			
63.5	20.965	25.915	17.68	0.413	0.047	0.039	0.037	0.036	0.056	0.063	0.079				
68.5	20.325	26.457	18.18	0.429	0.059	0.045	0.040	0.038	0.055	0.062	0.078				
73.4	18.568	28.094	19.86	0.423	0.067	0.051	0.044	0.040	0.056	0.063	0.082				
78.4	17.800	28.032	19.99	0.420	0.068	0.058	0.048	0.044	0.059	0.066	0.091				
83.4	17.470	27.912	19.98	0.417	0.069	0.061	0.052	0.048	0.061	0.068	0.097				
88.4	16.927	28.110	20.25	0.418	0.068	0.060	0.054	0.050	0.060	0.068					
93.3	16.895	27.590	19.86	0.415	0.068	0.057	0.054	0.051	0.060	0.066					
98.2	16.647	27.063	19.51	0.410	0.068	0.056	0.051	0.049	0.060	0.067					
103.2	16.466	26.739	19.38	0.403	0.068	0.055	0.049	0.047	0.060	0.067					
108.2	16.321	25.841	18.65	0.397	0.064	0.051	0.046	0.044	0.060	0.067					
113.2	16.416	25.902	18.67	0.397	0.061	0.049	0.043	0.042	0.059	0.065					
118.2	16.876	24.625	17.68	0.397	0.058	0.046	0.041	0.041	0.057						
123.2	16.899	24.113	17.28	0.396	0.058	0.045	0.040	0.040	0.058						
128.1	16.835	23.666	16.87	0.394	0.056	0.043	0.039	0.039	0.059						
133.1	16.768	23.377	16.67	0.392	0.055	0.041	0.037	0.037	0.060						
138.0	16.574	23.499	16.88	0.389	0.052	0.039	0.035	0.036							
143.0	16.204	23.123	16.59	0.388	0.049	0.038	0.033	0.034							
148.0	15.946	22.895	16.47	0.387	0.048	0.036	0.032	0.032							
153.1	15.867	22.458	16.15	0.387		0.036	0.032	0.032							
158.0	15.637	22.691	16.38	0.385		0.034	0.032	0.032							
162.9	15.501	22.332	16.13	0.385		0.034	0.031	0.033							
167.9	14.850	22.666	16.52	0.383		0.035	0.032	0.033							
172.8	14.456	22.339	16.34	0.383		0.035	0.032	0.033							
177.9	14.121	22.348	16.41	0.382		0.034	0.032	0.033							
182.8	14.070	21.868	16.05	0.382		0.034	0.032	0.034							
187.8	13.643	21.808	16.09	0.382		0.034	0.033	0.034							

Cast Label : ODEX 3 STA 134 DN CAST 11-8-82 2200Z

Latitude: 32.5605N Longitude: 142.1503W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Beam Atten Clean water value->	Diffuse Attenuation (/M)										
					418 nM	441 nM	465 nM	488 nM	520 nM	548 nM	568 nM	589 nM	625 nM	671 nM	694 nM
3.8	53.168	119.318	70.70	0.414	0.038	0.029	0.030	0.031	0.059	0.068	0.088	0.157	0.349	0.500	0.592
8.8	19.456	34.514	24.54	0.414	0.031	0.029	0.030	0.031	0.057	0.066	0.086	0.150	0.336		
13.7	19.457	34.519	24.54	0.413	0.031	0.028	0.029	0.030	0.056	0.065	0.084	0.147	0.306		
18.7	19.371	34.543	24.58	0.417	0.031	0.027	0.028	0.029	0.055	0.064	0.082	0.143	0.248		
23.8	19.157	34.529	24.62	0.415	0.032	0.028	0.028	0.028	0.053	0.062	0.081	0.136			
28.8	19.224	34.544	24.62	0.416	0.032	0.028	0.028	0.028	0.052	0.060	0.082	0.126			
33.7	19.258	34.549	24.61	0.415	0.033	0.029	0.029	0.029	0.052	0.062	0.083	0.119			
38.7	19.300	34.555	24.61	0.415	0.034	0.030	0.030	0.030	0.052	0.065	0.083	0.112			
43.5	19.359	34.610	24.63	0.416	0.036	0.031	0.031	0.031	0.053	0.067	0.086	0.105			
48.5	19.305	34.625	24.66	0.416	0.040	0.034	0.033	0.032	0.055	0.065	0.079	0.097			
53.5	18.302	34.352	24.70	0.420	0.046	0.039	0.036	0.034	0.058	0.065	0.078	0.090			
58.5	16.978	34.216	24.92	0.425	0.056	0.043	0.039	0.037	0.060	0.065	0.079	0.084			
63.4	15.547	33.699	24.85	0.425	0.064	0.046	0.042	0.039	0.059	0.066	0.078				
68.4	15.870	33.844	25.87	0.423	0.067	0.049	0.044	0.048	0.058	0.066	0.078				
73.4	14.917	33.776	25.85	0.421	0.067	0.054	0.045	0.042	0.059	0.067	0.077				
78.4	14.778	33.769	25.87	0.420	0.067	0.058	0.046	0.044	0.059	0.067	0.075				
83.4	14.747	33.765	25.88	0.420	0.068	0.059	0.050	0.047	0.059	0.066	0.074				
88.4	14.578	33.755	25.11	0.417	0.070	0.058	0.053	0.048	0.058	0.065	0.075				
93.3	14.433	33.746	25.13	0.411	0.072	0.059	0.054	0.049	0.058	0.066	0.075				
98.2	14.376	33.754	-25.15	0.409	0.072	0.059	0.051	0.048	0.057	0.066					
103.2	14.254	33.753	25.17	0.408	0.069	0.057	0.049	0.046	0.056	0.067					
108.3	14.142	33.775	25.21	0.405	0.064	0.052	0.046	0.043	0.055	0.068					
113.2	14.001	33.743	25.22	0.395	0.059	0.046	0.041	0.040	0.053						
118.2	13.976	33.750	25.23	0.389	0.055	0.042	0.037	0.037	0.052						
123.3	13.920	33.774	25.26	0.387	0.052	0.048	0.035	0.034	0.050						
128.1	13.991	33.794	25.26	0.386	0.052	0.039	0.034	0.033	0.052						
133.0	14.201	33.908	25.30	0.387	0.052	0.039	0.034	0.032	0.052						
138.0	14.399	33.995	25.33	0.386	0.051	0.038	0.033	0.032	0.050						
143.0	14.135	33.942	25.34	0.384	0.046	0.038	0.033	0.032	0.045						
148.0	14.682	34.138	25.38	0.387		0.039	0.035	0.033							
152.9	15.083	34.243	25.37	0.387		0.040	0.035	0.034							
158.0	15.221	34.304	25.39	0.388		0.042	0.037	0.035							
162.9	15.128	34.352	25.45	0.391		0.043	0.037	0.035							
167.9	14.943	34.365	25.50	0.389		0.044	0.037	0.034							
172.9	13.589	34.191	25.47	0.385		0.043	0.036	0.033							
177.8	12.957	34.070	25.68	0.384		0.041	0.034	0.031							
182.8	12.952	34.065	25.68	0.383		0.040	0.031	0.028							
187.7	12.649	34.015	25.70	0.384		0.040	0.030	0.028							

Cast Label : ODEX 3 STA 134 UP CAST 11-8-82 22142

Latitude: 32.5685N Longitude: 142.15034

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Beam Atten	Diffuse Attenuation (/M)										
					410 nM	441 nM	465 nM	488 nM	520 nM	540 nM	560 nM	589 nM	625 nM	671 nM	694 nM
		Clean water value->			0.017	0.015	0.016	0.020	0.048	0.055	0.071	0.107	0.244	0.460	0.600
3.8	53.173	119.422	70.76	0.414	0.030	0.028	0.029	0.031	0.058	0.067	0.087	0.156	0.348	0.500	0.595
8.8	19.381	34.540	24.58	0.413	0.030	0.028	0.028	0.030	0.056	0.066	0.085	0.150	0.337	0.445	
13.7	19.326	34.510	24.57	0.413	0.030	0.027	0.027	0.028	0.054	0.063	0.082	0.144	0.313		
18.6	19.136	34.513	24.62	0.414	0.030	0.026	0.026	0.027	0.052	0.061	0.079	0.139			
23.8	19.220	34.543	24.62	0.414	0.030	0.026	0.026	0.027	0.051	0.060	0.078	0.134			
28.7	19.229	34.534	24.61	0.414	0.031	0.027	0.027	0.028	0.052	0.060	0.082	0.128			
33.6	19.354	34.570	24.60	0.414	0.033	0.029	0.029	0.029	0.052	0.061	0.084	0.121			
38.6	19.339	34.599	24.63	0.415	0.034	0.030	0.030	0.030	0.053	0.065	0.084	0.114			
43.6	19.201	34.691	24.74	0.415	0.038	0.033	0.032	0.032	0.053	0.067	0.081	0.107			
48.4	18.305	34.414	24.75	0.418	0.042	0.035	0.034	0.033	0.055	0.066	0.079	0.100			
53.5	17.107	34.482	25.09	0.424	0.048	0.040	0.037	0.035	0.058	0.064	0.078	0.095			
58.5	15.252	33.980	25.13	0.426	0.057	0.044	0.039	0.037	0.059	0.064	0.078	0.087			
63.4	15.031	33.785	25.03	0.422	0.064	0.047	0.042	0.039	0.059	0.065	0.079				
68.4	14.861	33.761	25.05	0.421	0.067	0.049	0.043	0.040	0.058	0.066	0.079				
73.4	14.800	33.784	25.08	0.421	0.066	0.054	0.045	0.042	0.059	0.067	0.080				
78.2	14.734	33.760	25.08	0.419	0.067	0.058	0.047	0.044	0.059	0.067	0.079				
83.4	14.578	33.799	25.14	0.417	0.068	0.060	0.051	0.047	0.059	0.066	0.080				
88.4	14.412	33.764	25.15	0.411	0.070	0.059	0.054	0.049	0.059	0.066	0.080				
93.5	14.374	33.740	25.14	0.409	0.071	0.059	0.054	0.049	0.059	0.067					
98.3	14.264	33.782	25.19	0.406	0.071	0.058	0.051	0.048	0.058	0.067					
103.2	14.143	33.758	25.20	0.407	0.068	0.056	0.049	0.046	0.057	0.066					
108.3	14.045	33.746	25.21	0.397	0.064	0.051	0.045	0.043	0.056	0.064					
113.2	13.981	33.748	25.23	0.394	0.058	0.045	0.041	0.039	0.054	0.062					
118.2	13.987	33.776	25.25	0.388	0.055	0.042	0.037	0.036	0.053						
123.2	13.943	33.786	25.26	0.386	0.053	0.039	0.035	0.034	0.053						
128.1	14.160	33.747	25.19	0.386	0.053	0.038	0.034	0.033	0.054						
133.0	15.059	33.272	24.63	0.386	0.050	0.038	0.034	0.033	0.053						
138.0	14.203	34.042	25.41	0.385	0.047	0.037	0.033	0.032	0.050						
143.0	14.093	33.934	25.35	0.383	0.044	0.038	0.033	0.032	0.049						
148.0	15.116	34.294	25.40	0.387		0.040	0.035	0.033							
152.9	15.213	34.250	25.35	0.388		0.042	0.037	0.034							
158.0	15.173	34.342	25.43	0.391		0.043	0.038	0.035							
163.0	14.923	34.433	25.55	0.389		0.043	0.037	0.035							
167.9	13.707	34.151	25.59	0.385		0.043	0.037	0.034							
172.9	13.051	34.840	25.64	0.384		0.041	0.036	0.033							
177.8	12.969	34.812	25.64	0.383		0.039	0.033	0.030							
182.7	12.793	34.811	25.67	0.383		0.038	0.031	0.029							
187.8	11.923	33.999	25.83	0.382		0.038	0.029	0.026							

SHORT DATA FILE

Cast Label : ODEX 3 STA 167 DN CAST 11-12-82 2338Z

Latitude: 33.4790N Longitude: 136.4680W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Beam Atten Clean water value->	Diffuse Attenuation (/M)										
					410 nM	441 nM	465 nM	488 nM	528 nM	540 nM	560 nM	589 nM	625 nM	671 nM	694 nM
3.9	52.453	186.124	62.49	0.422	0.025	0.022	0.024	0.025	0.053	0.062	0.083	0.156	0.366	0.528	0.623
8.9	17.857	33.719	24.33	0.422	0.027	0.023	0.024	0.025	0.052	0.062	0.082	0.152	0.354		
13.8	17.837	33.725	24.34	0.419	0.027	0.024	0.024	0.025	0.052	0.062	0.082	0.150			
18.7	17.826	33.736	24.35	0.420	0.027	0.024	0.024	0.024	0.051	0.060	0.082	0.142			
23.7	17.815	33.719	24.34	0.420	0.028	0.025	0.024	0.025	0.050	0.060	0.083	0.132			
28.7	17.814	33.731	24.35	0.420	0.031	0.026	0.026	0.026	0.050	0.063	0.084	0.124			
33.6	17.835	33.737	24.35	0.420	0.032	0.029	0.028	0.029	0.053	0.067	0.083	0.118			
38.6	17.894	33.776	24.36	0.420	0.034	0.031	0.031	0.032	0.058	0.069	0.085	0.111			
43.6	17.956	33.884	24.37	0.421	0.043	0.036	0.035	0.035	0.062	0.069	0.085	0.100			
48.5	18.048	33.821	24.36	0.420	0.054	0.042	0.039	0.038	0.062	0.068	0.084	0.089			
53.4	16.492	33.877	24.77	0.426	0.063	0.048	0.044	0.041	0.061	0.069	0.084	0.079			
58.5	15.547	33.468	24.67	0.430	0.067	0.056	0.048	0.045	0.063	0.071	0.085				
63.4	15.144	33.444	24.74	0.429	0.069	0.061	0.051	0.048	0.064	0.071	0.085				
68.5	14.766	33.480	24.79	0.425	0.070	0.061	0.054	0.050	0.063	0.070	0.086				
73.4	14.617	33.364	24.80	0.422	0.072	0.059	0.056	0.051	0.063	0.070	0.085				
78.4	14.411	33.370	24.84	0.422	0.074	0.061	0.055	0.050	0.064	0.071					
83.4	14.359	33.374	24.86	0.420	0.074	0.061	0.054	0.050	0.063	0.070					
88.4	14.346	33.368	24.86	0.418	0.073	0.060	0.053	0.050	0.063	0.070					
93.3	14.339	33.374	24.86	0.417	0.074	0.061	0.053	0.050	0.063	0.069					
98.3	14.264	33.378	24.88	0.417	0.074	0.060	0.053	0.050	0.064	0.068					
103.3	14.205	33.446	24.95	0.409	0.074	0.059	0.052	0.049	0.066						
108.2	14.195	33.468	24.97	0.406	0.072	0.057	0.050	0.048	0.065						
113.2	14.210	33.484	24.97	0.404	0.072	0.055	0.049	0.047	0.064						
118.2	14.200	33.504	24.99	0.402		0.053	0.047	0.046							
123.2	14.135	33.521	25.02	0.397		0.051	0.045	0.045							
128.2	14.165	33.579	25.06	0.397		0.050	0.043	0.043							
133.1	14.052	33.595	25.09	0.396		0.047	0.041	0.042							
137.9	13.980	33.600	25.11	0.394		0.042	0.038	0.040							
143.0	13.927	33.617	25.14	0.390		0.038	0.035	0.037							
148.0	13.755	33.568	25.13	0.384		0.038	0.033	0.034							
153.0	13.704	33.571	25.15	0.384		0.038	0.031	0.032							
158.0	13.688	33.601	25.17	0.383		0.035	0.029	0.032							
163.0	13.522	33.552	25.17	0.382		0.033	0.029	0.032							
167.9	13.203	33.561	25.24	0.381			0.030	0.033							
172.9	13.014	33.594	25.30	0.382			0.031	0.035							
177.9	12.868	33.595	25.33	0.382			0.029	0.036							
182.8	12.758	33.608	25.37	0.382			0.027	0.038							
187.8	13.036	33.715	25.39	0.383			0.026	0.039							
192.7	13.815	33.725	25.41	0.383			0.027	0.041							

Cast Label : ODEX 3 STA 170 DN CAST 11-15-82 19262

Latitude: 34.4828N Longitude: 127.1375W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Beam Atten Clean water value->	Diffuse Attenuation (/M)										
					410 nM	441 nM	465 nM	488 nM	520 nM	540 nM	560 nM	589 nM	625 nM	671 nM	694 nM
3.9	51.934	188.145	58.82	0.430	0.041	0.034	0.031	0.030	0.055	0.064	0.084	0.153	0.354	0.509	0.592
8.7	16.975	33.182	24.13	0.430	0.040	0.033	0.031	0.030	0.054	0.062	0.082	0.146	0.334		
13.7	16.976	33.182	24.13	0.430	0.041	0.034	0.031	0.030	0.054	0.062	0.081	0.143	0.308		
18.8	16.976	33.182	24.13	0.430	0.042	0.035	0.033	0.031	0.055	0.063	0.081	0.141			
23.7	16.977	33.182	24.13	0.430	0.044	0.037	0.034	0.033	0.055	0.063	0.084	0.134			
28.7	16.978	33.185	24.13	0.430	0.045	0.039	0.036	0.034	0.056	0.065	0.087	0.128			
33.6	16.982	33.184	24.13	0.433	0.047	0.041	0.038	0.037	0.057	0.069	0.088	0.121			
38.7	16.982	33.152	24.18	0.443	0.054	0.045	0.042	0.040	0.068	0.073	0.087	0.115			
43.6	17.007	33.198	24.13	0.430	0.067	0.053	0.048	0.045	0.065	0.073	0.086	0.105			
48.6	16.758	33.055	24.08	0.450	0.084	0.065	0.056	0.050	0.069	0.073	0.087	0.099			
53.5	15.813	33.216	24.42	0.456	0.096	0.079	0.063	0.056	0.071	0.075	0.088	0.091			
58.5	14.475	33.182	24.62	0.463	0.101	0.085	0.070	0.061	0.071	0.076	0.089				
63.5	14.281	32.985	24.57	0.461	0.100	0.083	0.072	0.063	0.070	0.075	0.087				
68.4	14.167	33.198	24.76	0.442	0.101	0.088	0.071	0.064	0.069	0.075	0.085				
73.4	13.305	33.108	24.87	0.452	0.106	0.082	0.069	0.063	0.069	0.076	0.084				
78.4	12.720	33.063	24.95	0.442	0.107	0.081	0.067	0.061	0.069	0.077	0.085				
83.4	12.408	32.985	24.95	0.432	0.104	0.076	0.063	0.057	0.068	0.075					
88.3	12.310	32.999	24.98	0.424	0.100	0.070	0.058	0.053	0.066	0.074					
93.3	12.325	33.047	25.01	0.412		0.064	0.053	0.049	0.063	0.071					
98.3	12.116	33.083	25.08	0.407		0.068	0.049	0.046	0.061	0.070					
103.2	11.736	33.121	25.18	0.402		0.056	0.046	0.044	0.058						
108.2	11.531	33.063	25.17	0.397		0.054	0.044	0.042	0.057						
113.2	11.670	33.077	25.16	0.397		0.054	0.044	0.041	0.059						
118.2	11.164	33.050	25.23	0.397		0.055	0.043	0.041	0.060						
123.2	11.161	33.089	25.26	0.395		0.055	0.042	0.040							
128.2	11.012	33.116	25.31	0.394		0.054	0.042	0.040							
133.0	10.703	33.158	25.40	0.394			0.042	0.040							
138.0	10.544	33.198	25.45	0.393				0.041	0.040						
143.0	10.417	33.295	25.55	0.391					0.041	0.040					
148.0	10.241	33.398	25.66	0.391					0.042	0.041					
153.0	10.159	33.456	25.72	0.391					0.042	0.041					
158.0	10.087	33.511	25.78	0.391					0.040	0.042					
162.8	10.010	33.540	25.81	0.392					0.042	0.042					
167.9	9.946	33.575	25.85	0.392						0.045					
173.0	9.825	33.657	25.94	0.391											
177.8	9.699	33.696	25.99	0.392											
182.8	9.568	33.764	26.06	0.391											
187.7	9.459	33.792	26.10	0.391											

Cast Label : ODEX 3 STA 170 UP CAST 11-15-82 19352

Latitude: 34.4828N Longitude: 127.1375W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Beam Atten Clean water value->	Diffuse Attenuation (/M)										
					418 nM	441 nM	465 nM	488 nM	520 nM	540 nM	560 nM	589 nM	625 nM	671 nM	694 nM
3.8	51.945	188.187	58.84	0.427	0.044	0.038	0.036	0.035	0.068	0.069	0.089	0.158	0.352	0.507	0.599
8.8	16.977	33.183	24.13	0.428	0.043	0.037	0.035	0.034	0.057	0.066	0.085	0.147	0.336	0.448	
13.7	16.971	33.182	24.13	0.428	0.043	0.036	0.034	0.033	0.056	0.064	0.083	0.145	0.320		
18.6	16.968	33.182	24.13	0.429	0.043	0.036	0.034	0.032	0.056	0.064	0.082	0.143			
23.8	16.970	33.180	24.13	0.428	0.044	0.037	0.034	0.033	0.056	0.064	0.084	0.139			
28.8	16.969	33.178	24.13	0.428	0.045	0.038	0.036	0.034	0.056	0.064	0.086	0.129			
33.6	16.972	33.177	24.12	0.427	0.047	0.040	0.038	0.036	0.057	0.067	0.087	0.124			
38.6	16.975	33.188	24.13	0.428	0.049	0.043	0.040	0.039	0.059	0.072	0.088	0.119			
43.5	16.980	33.171	24.12	0.427	0.061	0.049	0.045	0.043	0.064	0.074	0.088	0.115			
48.6	16.856	33.265	24.22	0.433	0.078	0.060	0.053	0.048	0.068	0.073	0.088	0.109			
53.5	15.578	33.211	24.47	0.454	0.096	0.076	0.062	0.055	0.070	0.073	0.087	0.105			
58.5	14.511	33.044	24.57	0.452	0.103	0.086	0.078	0.060	0.071	0.075	0.089				
63.5	14.131	32.934	24.57	0.455	0.105	0.087	0.074	0.065	0.071	0.076	0.090				
68.5	13.531	33.222	24.91	0.443	0.105	0.083	0.074	0.066	0.071	0.076	0.091				
73.3	13.062	32.980	24.82	0.448	0.107	0.082	0.071	0.065	0.071	0.076	0.093				
78.4	12.466	32.972	24.93	0.433	0.107	0.080	0.067	0.061	0.070	0.076	0.096				
83.3	12.348	32.948	24.93	0.426	0.102	0.074	0.062	0.057	0.068	0.074					
88.4	12.393	32.956	24.93	0.416	0.097	0.068	0.057	0.052	0.065	0.072					
93.3	12.181	33.059	25.05	0.408		0.062	0.053	0.049	0.063	0.071					
98.3	11.821	33.041	25.10	0.404		0.058	0.049	0.046	0.062	0.072					
103.3	11.648	33.024	25.12	0.398		0.055	0.047	0.044	0.061	0.069					
108.2	11.779	33.109	25.16	0.397		0.052	0.045	0.043	0.059						
113.3	11.645	33.184	25.19	0.397		0.051	0.043	0.041	0.058						
118.2	11.160	33.107	25.28	0.397		0.049	0.042	0.040	0.060						
123.3	11.254	33.048	25.21	0.395		0.049	0.042	0.040							
128.2	10.908	33.226	25.41	0.393		0.048	0.042	0.040							
133.0	10.650	33.403	25.60	0.392		0.048	0.042	0.041							
138.0	10.539	33.187	25.45	0.392			0.043	0.042							
143.0	10.444	33.251	25.51	0.390			0.043	0.042							
148.0	10.223	33.385	25.66	0.391			0.043	0.043							
153.0	10.133	33.465	25.73	0.391			0.043	0.043							
157.9	10.081	33.484	25.76	0.391			0.043	0.043							
163.0	9.981	33.559	25.83	0.392			0.043	0.043							
167.9	9.911	33.603	25.88	0.391				0.044							
172.9	9.775	33.681	25.96	0.391				0.049							
177.9	9.643	33.715	26.01	0.391											
182.8	9.544	33.741	26.05	0.391											
187.8	9.385	33.794	26.12	0.391											
192.8	9.291	33.785	26.12	0.391											

Cast Label : ODEX 3 STA 176 UP CAST 11-16-82 2328Z

Latitude: 34.5865N Longitude: 123.3559W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Beam Atten	410 nM	441 nM	465 nM	488 nM	520 nM	540 nM	560 nM	589 nM	625 nM	671 nM	694 nM
		Clean water value->		0.817	0.815	0.816	0.828	0.848	0.855	0.871	0.187	0.244	0.460	0.600	
3.8	50.406	33.353	55.24	0.556	0.155	0.121	0.100	0.085	0.088	0.088	0.099	0.166	0.372	0.512	
8.8	14.888	33.097	24.53	0.555	0.136	0.112	0.095	0.085	0.095	0.101	0.119	0.184			
13.7	14.836	33.104	24.55	0.558	0.134	0.116	0.100	0.090	0.101	0.107	0.124	0.181			
18.6	14.814	33.125	24.57	0.582	0.138	0.124	0.108	0.098	0.102	0.106	0.120	0.168			
23.8	14.714	33.191	24.64	0.630	0.145	0.129	0.114	0.103	0.103	0.103	0.114	0.158			
28.7	14.836	33.203	24.62	0.662	0.145	0.127	0.111	0.101	0.101	0.102	0.114	0.156			
33.7	14.853	33.264	24.67	0.644	0.138	0.116	0.101	0.092	0.098	0.101	0.116				
38.6	13.576	33.232	24.91	0.504	0.125	0.099	0.086	0.079	0.091	0.095	0.113				
43.6	13.198	33.056	24.85	0.465		0.085	0.073	0.068	0.082	0.086	0.109				
48.4	12.612	33.364	25.20	0.442		0.075	0.064	0.060	0.076	0.079	0.107				
53.5	11.710	33.013	25.10	0.425		0.065	0.056	0.053	0.071	0.074					
58.5	11.450	33.008	25.15	0.417		0.058	0.050	0.048	0.068	0.072					
63.4	11.087	33.084	25.27	0.411		0.052	0.045	0.044	0.066	0.068					
68.4	10.882	33.093	25.31	0.405		0.044	0.042	0.041	0.066	0.065					
73.4	10.798	33.050	25.30	0.405			0.038	0.040	0.070						
78.4	10.760	33.057	25.31	0.402			0.038	0.040							
83.4	10.462	33.095	25.39	0.397			0.042	0.042							
88.4	10.355	33.104	25.41	0.397			0.043	0.045							
93.3	10.244	33.142	25.46	0.395			0.043	0.050							
98.3	10.634	33.265	25.49	0.397			0.048	0.060							
103.3	10.460	33.434	25.65	0.397											
108.2	9.732	33.427	25.77	0.395											
113.2	9.449	33.493	25.87	0.394											
118.3	9.607	33.545	25.88	0.393											
123.2	9.662	33.646	25.95	0.395											
128.0	9.564	33.716	26.02	0.395											
133.0	9.319	33.778	26.11	0.394											

SHORT DATA FILE

Cast Label : ODEX 3 STA 182 UP CAST 11-17-82 20262

Latitude: 35.5353N Longitude: 121.3916W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Beam Atten Clean water value->	Diffuse Attenuation (/M)										
					410 nM	441 nM	465 nM	488 nM	520 nM	540 nM	560 nM	589 nM	625 nM	671 nM	694 nM
3.8	51.138	97.469	57.68	0.558	0.097	0.081	0.066	0.056	0.065	0.068	0.083	0.144	0.338	0.471	0.558
8.7	15.763	33.375	24.55	0.557	0.106	0.085	0.069	0.060	0.068	0.071	0.085	0.146	0.328		
13.7	15.747	33.374	24.56	0.555	0.114	0.094	0.074	0.065	0.073	0.077	0.093	0.149			
18.6	15.735	33.372	24.56	0.551	0.118	0.101	0.082	0.070	0.080	0.085	0.099	0.148			
23.8	15.725	33.371	24.56	0.539	0.116	0.102	0.085	0.075	0.084	0.087	0.100	0.144			
28.7	15.721	33.371	24.56	0.535	0.117	0.099	0.086	0.077	0.085	0.087	0.098	0.142			
33.6	15.714	33.368	24.56	0.530	0.118	0.099	0.085	0.078	0.085	0.087	0.099	0.143			
38.6	15.708	33.355	24.55	0.526	0.121	0.102	0.086	0.078	0.086	0.089	0.101	0.148			
43.6	15.314	33.472	24.73	0.505	0.126	0.101	0.086	0.078	0.085	0.088	0.101				
48.4	14.707	33.296	24.72	0.491		0.098	0.084	0.076	0.083	0.086	0.102				
53.5	14.545	33.318	24.78	0.482		0.093	0.081	0.074	0.082	0.084	0.104				
58.5	14.015	33.375	24.93	0.438		0.087	0.076	0.070	0.080	0.081	0.103				
63.5	13.667	33.381	24.95	0.442		0.082	0.072	0.067	0.078	0.079					
68.4	13.237	33.400	25.11	0.434		0.076	0.068	0.065	0.077	0.077					
73.5	12.831	33.331	25.14	0.425			0.064	0.062	0.075	0.077					
78.2	12.625	33.354	25.19	0.423			0.062	0.060	0.073						
83.4	12.269	33.411	25.31	0.415			0.061	0.059							
88.4	12.287	33.425	25.33	0.415			0.058	0.059							
93.4	12.049	33.422	25.36	0.412				0.062							
98.2	11.981	33.407	25.36	0.411											
103.3	11.682	33.524	25.58	0.488											
108.3	11.584	33.513	25.51	0.410											
113.2	11.502	33.553	25.56	0.416											
118.3	11.440	33.568	25.58	0.417											
123.3	11.381	33.540	25.57	0.417											
128.1	11.058	33.594	25.67	0.497											

SHORT DATA FILE

Cast Label : ODEX 3 STA 184 DN CAST 11-17-82 23392

Latitude: 35.5320N Longitude: 121.3110W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Beam Atten	Diffuse Attenuation (/M)										
					410 nM	441 nM	465 nM	488 nM	520 nM	540 nM	560 nM	589 nM	625 nM	671 nM	694 nM
		Clean water value->			0.017	0.015	0.016	0.020	0.048	0.055	0.071	0.107	0.244	0.468	0.600
3.8	51.098	97.250	57.47	0.546	0.108	0.093	0.072	0.063	0.073	0.081	0.096	0.157	0.341	0.499	
8.6	15.692	33.381	24.57	0.555	0.113	0.098	0.081	0.071	0.079	0.082	0.095	0.152			
13.7	15.623	33.390	24.60	0.556	0.123	0.103	0.087	0.077	0.084	0.086	0.097	0.150			
18.8	15.533	33.371	24.60	0.555	0.135	0.110	0.092	0.082	0.089	0.092	0.103	0.152			
23.8	15.388	33.362	24.63	0.576	0.145	0.115	0.096	0.086	0.093	0.098	0.108	0.152			
28.7	15.330	33.349	24.63	0.580	0.155	0.116	0.098	0.089	0.096	0.101	0.111	0.150			
33.6	15.081	33.362	24.69	0.576		0.115	0.098	0.090	0.098	0.105	0.115				
38.7	14.987	33.358	24.71	0.575		0.112	0.097	0.091	0.100	0.111	0.118				
43.6	14.887	33.359	24.73	0.567		0.107	0.095	0.091	0.101	0.120					
48.5	14.528	33.354	24.81	0.560			0.091	0.091	0.102						
53.5	14.348	33.344	24.84	0.561			0.088	0.094	0.107						
58.5	14.135	33.338	24.88	0.553			0.093	0.104							
63.5	13.421	33.466	25.12	0.568											
68.5	13.159	33.389	25.12	0.534											
73.5	12.923	33.416	25.18	0.545											
78.4	12.823	33.404	25.19	0.521											
83.4	12.735	33.421	25.22	0.514											
88.4	12.633	33.436	25.26	0.522											
93.4	12.560	33.456	25.29	0.532											

SHORT DATA FILE

Cast Label : ODEX 3 STA 184 UP CAST 11-17-82 2352Z

Latitude: 35.5320N Longitude: 121.3110W

Z-ave M	Temp deg C	Sal. ppt	Dens. &T	Beam Atten	Diffuse Attenuation (/M)										
		Clean water value->			410 nM	441 nM	465 nM	488 nM	520 nM	540 nM	560 nM	589 nM	625 nM	671 nM	694 nM
3.9	51.889	33.154	57.41	0.547	0.104	0.087	0.070	0.061	0.070	0.074	0.089	0.155	0.369		
8.7	15.681	33.359	24.56	0.552	0.108	0.098	0.073	0.064	0.072	0.076	0.098	0.149			
13.7	15.576	33.362	24.59	0.556	0.117	0.097	0.079	0.070	0.077	0.088	0.094	0.147			
18.7	15.368	33.353	24.63	0.574	0.125	0.103	0.085	0.076	0.083	0.085	0.099	0.147			
23.8	15.317	33.289	24.59	0.578	0.131	0.107	0.088	0.081	0.088	0.098	0.105				
28.6	15.058	33.339	24.68	0.576		0.107	0.098	0.083	0.093	0.092	0.113				
33.6	14.988	33.337	24.69	0.575		0.103	0.089	0.084	0.096	0.093					
38.7	14.711	33.362	24.77	0.567			0.085	0.086	0.099	0.095					
43.6	14.482	33.333	24.88	0.558			0.078	0.086	0.098						
48.5	14.219	33.342	24.86	0.556			0.083	0.097							
53.5	13.976	33.401	24.96	0.548											
58.5	13.787	33.302	24.92	0.537											
63.5	13.234	33.342	25.07	0.539											
68.5	13.035	33.362	25.12	0.542											
73.4	12.854	33.389	25.18	0.543											
78.4	12.801	33.379	25.18	0.518											
83.3	12.726	33.403	25.21	0.514											
88.4	12.597	33.447	25.27	0.524											
93.3	12.549	33.438	25.27	0.536											

SHORT DATA FILE







CRUISE	STA	DPTH	VOL *	SLP1	SLP2	KNEE	% VAR
ODEX	III	020 0010	.195	3.31	5.15	6.88	99.82
ODEX	III	020 0025	.209	2.90	4.87	6.44	99.80
ODEX	III	020 0032	.213	2.68	4.68	6.17	99.82
ODEX	III	020 0100	.040	3.62	4.70	6.37	99.61
ODEX	III	020 0200	.019	3.44	5.30	5.84	99.49
ODEX	III	020 0400	.019	4.05	5.08	6.27	99.68
ODEX	III	021 0010	.162	2.80	5.39	6.85	99.77
ODEX	III	021 0051	.175	2.96	5.20	6.51	99.24
ODEX	III	021 0076	.092	3.40	4.65	7.18	99.60
ODEX	III	021 0101	.051	3.57	3.98	12.88	98.74
ODEX	III	021 0153	.044	3.46	4.05	8.09	99.44
ODEX	III	021 0201	.036	3.23	4.63	6.39	99.74
ODEX	III	021 0252	.022	3.40	5.74	6.46	99.48
ODEX	III	021 0300	.055	H 3.38	4.70	6.07	99.73
ODEX	III	021 0326	.022	3.35	4.78	6.58	99.76
ODEX	III	021 0397	.016	1 3.72	5.03	7.10	99.76
ODEX	III	022 0010	.098	3.10	5.02	6.52	99.74
ODEX	III	022 0040	.109	2.94	5.45	6.83	99.51
ODEX	III	022 0070	.147	3.05	4.96	6.53	99.80
ODEX	III	022 0100	.036	3.77	4.74	7.60	99.77
ODEX	III	022 0150	.023	3.40	5.55	7.14	99.00
ODEX	III	022 0200	.023	3.79	5.55	6.46	98.92
ODEX	III	022 0300	.011	3.37	5.36	6.24	99.57
ODEX	III	023 0006	.101	3.03	4.58	6.34	99.89
ODEX	III	023 0025	.065	3.39	4.88	6.19	99.84
ODEX	III	023 0061	.077	L 3.63	5.14	6.13	99.96
ODEX	III	023 0112	.019	3.35	4.38	3.34	98.95
ODEX	III	023 0175	.016	3.91	3.84	.22	99.29
ODEX	III	023 0201	.025	B 3.82	3.08	4.65	99.80
ODEX	III	023 0300	.011	4.00	5.27	8.13	97.86
ODEX	III	024 0036B	.132	3.12	5.57	7.90	99.07
ODEX	III	024 0056B	.189	2.78	5.25	6.77	99.29
ODEX	III	024 0061B	.150	3.32	4.59	7.03	99.79
ODEX	III	024 0066B	.165	3.32	5.02	8.04	99.42
ODEX	III	024 0086B	.065	3.60	4.98	7.21	99.64
ODEX	III	024 0106B	.040	3.84	5.06	8.13	99.18
ODEX	III	024 0190B	.025	3.75	4.25	7.36	99.60
ODEX	III	024 0190B	.028	3.50	4.84	6.21	99.78
ODEX	III	025 0036	.115	2.85	5.32	6.70	99.47
ODEX	III	025 0061	.161	2.89	5.22	6.75	99.64
ODEX	III	025 0076	.106	3.58	5.19	7.97	99.24
ODEX	III	025 0090	.040	4.18	4.66	12.00	99.48
ODEX	III	025 0150	.022	3.54	5.05	7.15	99.56
ODEX	III	026 0010	.099	3.04	7.18	7.27	96.67
ODEX	III	026 0025	.101	2.69	5.93	6.62	99.46
ODEX	III	026 0040	.102	3.05	5.86	6.76	99.54
ODEX	III	026 0055	.148	2.82	5.75	6.49	99.70
ODEX	III	026 0100	.035	3.77	5.69	7.33	99.65
ODEX	III	026 0200	.022	3.95	5.26	7.40	99.59
ODEX	III	026 0300	.015	3.89	5.62	6.76	98.80

CRUISE	STA	DPTH	VOL *	SLP1	SLP2	KNEE	% VAR
ODEX	III	026 0400	,019	3.23	5.63	6.52	99.60
ODEX	III	026 0500	,011	3.89	4.87	6.48	99.76
ODEX	III	027 0010	,145	2.90	5.17	6.74	99.82
ODEX	III	027 0025	,143	2.63	5.57	6.76	99.61
ODEX	III	027 0040	,148	3.01	5.23	6.85	99.69
ODEX	III	027 0050	,377	2.91	5.70	6.72	99.44
ODEX	III	027 0075	,065	3.59	4.80	7.91	99.62
ODEX	III	027 0100	,031	3.81	4.52	8.53	99.74
ODEX	III	027 0150	,030	3.71	4.78	7.19	99.51
ODEX	III	027 0200	,029	4.01	4.33	16.97	98.96
ODEX	III	028 0012	,088	3.37	10.92	6.15	99.13
ODEX	III	028 0025	,122	3.03	10.52	6.39	98.42
ODEX	III	028 0050	,122	3.02	10.58	6.42	98.53
ODEX	III	028 0081	,032 L	3.75	8.32	6.63	98.98
ODEX	III	028 0101	,022	3.77	8.05	6.34	98.86
ODEX	III	028 0151	,022	3.36	7.65	6.00	98.74
ODEX	III	028 0201	,034	3.48	4.37	7.27	99.46
ODEX	III	029 0005	,143	3.09	5.83	6.36	99.81
ODEX	III	029 0026	,196	3.25	5.00	6.94	99.73
ODEX	III	029 0040	,250	2.74	6.00	6.41	99.60
ODEX	III	029 0080	,039	3.74	6.41	7.27	98.66
ODEX	III	029 0140	,025	4.01	5.93	7.97	98.90
ODEX	III	029 0250	,018	4.00	5.21	7.50	99.72
ODEX	III	029 0300	,019	4.52	4.67	7.02	99.81
ODEX	III	029 0350	,011	4.65	4.50	.23	97.78
ODEX	III	029 0400	,021	3.59	4.03	5.87	99.85
ODEX	III	029 0500	,012	3.89	4.99	7.59	99.76
ODEX	III	030 0020	,151	2.94	5.50	6.81	99.67
ODEX	III	030 0050	,261	2.43	5.48	6.19	99.17
ODEX	III	030 0300	,023	3.76	5.49	5.76	99.67
ODEX	III	030 0400	,014	3.41	5.41	5.94	99.40
ODEX	III	030 0500	,021	3.80	4.64	5.55	99.88
ODEX	III	031 0011	,123	2.70	5.86	6.84	99.46
ODEX	III	031 0040	,188	2.80	4.98	6.52	99.75
ODEX	III	031 0105	,040	3.73	5.21	7.14	99.80
ODEX	III	031 0151	,029	3.69	5.19	7.33	99.61
ODEX	III	031 0200	,029	4.05	5.72	6.59	98.74
ODEX	III	031 0302	,015	3.30	6.54	6.60	98.93
ODEX	III	031 0398	,014	3.92	6.19	7.16	98.91
ODEX	III	032 0015	,110	2.79	6.36	7.10	98.58
ODEX	III	032 0076	,094	3.49	5.25	6.79	98.60
ODEX	III	032 0132	,026	4.00	4.66	12.10	98.17
ODEX	III	032 0201	,030	3.77	4.45	7.99	99.40
ODEX	III	032 0302	,018	3.80	4.89	7.45	98.54
ODEX	III	032 0400	,018	3.84	4.60	7.73	99.49
ODEX	III	032 0498	,020	3.63	4.37	5.98	99.70
ODEX	III	033 0010	,109	2.77	5.83	6.81	99.60
ODEX	III	033 0052	,104	2.91	6.02	6.40	99.69
ODEX	III	033 0071	,109	3.18	6.20	6.07	98.97
ODEX	III	033 0102	,030	3.71	5.63	6.76	99.04

CRUISE	STA	DPTH	VOL	*	SLP1	SLP2	KNEE	% VAR
ODEX	III	033 0151	.020		4.02	4.52	7.12	99.70
ODEX	III	033 0190	.022		3.72	5.48	7.68	98.66
ODEX	III	033 0299	.017		3.60	5.75	6.28	98.28
ODEX	III	034 0010	.073	L	3.24	5.57	6.01	99.86
ODEX	III	034 0040	.082	L	3.31	6.14	6.11	99.72
ODEX	III	034 0065	.066	L	3.60	7.60	6.56	98.51
ODEX	III	034 0100	.025	L	3.66	6.06	6.75	99.28
ODEX	III	034 0150	.011	L	4.02	5.75	7.49	98.90
ODEX	III	034 0200	.014		3.86	6.01	6.07	99.58
ODEX	III	034 0250	.013		3.71	5.01	4.77	99.33
ODEX	III	034 0300	.014		3.63	5.40	6.45	99.02
ODEX	III	035 0010	.076		3.10	6.16	6.31	99.82
ODEX	III	035 0040	.067		3.33	5.79	6.23	99.64
ODEX	III	035 0075	.089		3.11	5.87	5.76	99.10
ODEX	III	035 0100	.041		3.88	5.19	6.07	99.62
ODEX	III	035 0125	.027		3.83	5.53	6.27	98.48
ODEX	III	035 0150	.017		3.89	5.54	6.17	99.47
ODEX	III	035 0200	.012		3.92	4.97	5.86	99.67
ODEX	III	035 0300	.013		3.79	5.16	5.59	99.76
ODEX	III	036 0012	.091		3.19	5.67	6.81	99.69
ODEX	III	036 0047	.093		3.33	5.34	6.94	99.79
ODEX	III	036 0066	.131		3.09	5.36	5.88	99.88
ODEX	III	036 0121	.027		4.84	4.46	3.07	99.31
ODEX	III	036 0150	.016		4.31	5.22	7.87	98.94
ODEX	III	036 0201	.025		4.79	5.72	8.65	97.93
ODEX	III	036 0366	.012		4.91	4.17	4.71	99.40
ODEX	III	036 0501	.013		4.17	4.27	4.09	98.42
ODEX	III	037 0006	.061		3.27	6.82	7.02	98.00
ODEX	III	037 0021	.063		3.27	6.87	6.75	99.40
ODEX	III	037 0041	.077		3.16	6.49	6.78	98.65
ODEX	III	037 0076	.099	L	2.82	5.81	5.82	99.73
ODEX	III	037 0101	.039	L	3.90	5.16	5.88	99.47
ODEX	III	037 0124	.025		3.97	5.70	6.65	99.63
ODEX	III	037 0200	.018		3.64	6.06	7.05	98.21
ODEX	III	037 0301	.014		3.77	5.32	6.57	99.24
ODEX	III	037 0401	.009		3.68	4.58	5.85	99.84
ODEX	III	038 0025	.081		3.00	5.76	6.50	99.55
ODEX	III	038 0045	.063		3.18	5.76	6.49	99.54
ODEX	III	038 0060	.136		2.66	5.72	6.13	99.46
ODEX	III	038 0130	.019		4.30	5.45	5.78	99.21
ODEX	III	038 0175	.015		4.29	5.06	9.50	99.56
ODEX	III	038 0250	.017		3.65	5.70	6.35	99.24
ODEX	III	038 0350	.013		3.63	5.38	6.10	99.50
ODEX	III	038 0502	.010		3.62	5.82	6.95	99.08
ODEX	III	039 0026	.077		3.35	5.81	6.82	99.63
ODEX	III	039 0052	.137		2.73	5.44	5.88	99.34
ODEX	III	039 0066	.128		3.24	5.12	6.72	99.54
ODEX	III	039 0150	.027		4.12	4.59	13.10	99.30
ODEX	III	039 0199	.023		4.21	5.07	7.67	99.07
ODEX	III	039 0300	.020		4.24	5.10	8.10	99.49

CRUISE	STA	DPTH	VOL *	SLP1	SLP2	KNEE	% VAR	
ODEX	III	039	0402	.017	4.87	5.38	8.38	98.51
ODEX	III	039	0501	.017	4.64	4.68	6.63	99.69
ODEX	III	040	0054	.090	2.97	5.68	6.70	99.61
ODEX	III	040	0060	.144	2.53	5.63	6.40	99.68
ODEX	III	040	0155	.024	3.83	4.63	10.15	99.32
ODEX	III	040	0190	.027	3.42	4.71	7.31	99.58
ODEX	III	040	0250	.020	3.78	4.35	9.37	99.33
ODEX	III	040	0351	.017	3.29	5.44	6.61	99.13
ODEX	III	040	0501	.013	4.12	5.59	6.99	99.07
ODEX	III	042	0025	.069	3.12	5.16	6.80	99.44
ODEX	III	042	0060	.075	3.05	6.18	6.87	99.18
ODEX	III	042	0100	.051	3.26	4.82	6.26	99.75
ODEX	III	042	0150	.010	4.61	5.01	14.27	97.93
ODEX	III	042	0200	.006	3.86	4.00	8.07	99.53
ODEX	III	042	0250	.018	3.77	3.87	46.69	99.01
ODEX	III	042	0300	.008	3.60	5.12	6.54	98.75
ODEX	III	043	0045B	.058	3.44	5.51	7.16	99.78
ODEX	III	043	0083B	.068	3.31	6.24	6.78	99.76
ODEX	III	043	0091B	.063	3.48	4.85	6.41	99.79
ODEX	III	043	0119B	.040	3.51	4.12	7.78	99.51
ODEX	III	043	0201B	.024	4.25	3.72	3.28	99.11
ODEX	III	045	0025	.030 L	3.62	6.39	6.27	98.46
ODEX	III	045	0050	.038 L	3.41	6.31	6.15	99.51
ODEX	III	045	0085	.044 L	3.77	5.89	6.63	99.55
ODEX	III	045	0100	.023	4.43	4.24	4.16	99.38
ODEX	III	045	0130	.019 1	5.08	3.81	4.66	98.79
ODEX	III	045	0300	.019 1	3.76	4.39	6.02	99.17
ODEX	III	46B	0015	.042	3.43	7.02	6.36	98.49
ODEX	III	46B	0042	.058	3.25	6.17	6.52	99.83
ODEX	III	46B	0075	.051	4.05	6.20	6.94	99.68
ODEX	III	46B	0130	.019	4.29	6.69	8.07	98.75
ODEX	III	46B	0160	.018	4.19	5.28	8.17	98.88
ODEX	III	46B	0200	.016	4.09	5.47	6.16	99.03
ODEX	III	46B	0400	.012	3.00	5.46	5.74	99.32
ODEX	III	46B	0600	.011 2	4.15	5.14	5.19	97.33
ODEX	III	46B	0800	.011 2	4.29	5.40	7.06	99.05
ODEX	III	46B	1000	.009	3.65	5.03	5.13	99.11
ODEX	III	047	0025	.066	3.80	5.00	7.03	99.61
ODEX	III	047	0046	.080	3.27	5.40	6.02	99.78
ODEX	III	047	0076	.062	3.59	4.57	6.01	99.87
ODEX	III	047	0124	.025	3.94	5.54	5.38	99.13
ODEX	III	047	0152	.032	4.32	3.97	2.53	99.64
ODEX	III	047	0199	.017	4.39	4.82	7.90	98.66
ODEX	III	047	0250	.015	4.19	4.45	1.51	98.96
ODEX	III	047	0302	.029	4.37	3.61	5.23	99.06
ODEX	III	048	0020	.055	3.45	6.00	6.52	99.14
ODEX	III	048	0045	.058 1	3.53	5.64	6.91	98.93
ODEX	III	048	0080	.053	3.11	5.99	5.73	99.14
ODEX	III	048	0100	.047	3.61	5.90	6.16	98.75
ODEX	III	048	0140	.033 1	4.33	5.06	7.90	99.35

CRUISE	STA	DPTH	VOL *	SLP1	SLP2	KNEE	% VAR
ODEX	III	048 0200	.032	4.26	4.43	7.76	99.58
ODEX	III	049 0020	.063	1 4.07	5.07	6.76	99.33
ODEX	III	049 0044	.063	4.48	4.39	.83	99.55
ODEX	III	049 0058	.053	4.04	5.20	6.91	99.66
ODEX	III	049 0082	.066	3.76	4.09	5.69	99.75
ODEX	III	049 0102	.040	4.16	4.98	7.51	99.51
ODEX	III	049 0121	.034	4.26	4.23	122.37	99.78
ODEX	III	049 0142	.039	3.60	4.18	4.68	99.73
ODEX	III	049 0159	.046	H 3.52	3.51	****	98.43
ODEX	III	049 0200	.036	H 3.80	2.77	5.98	99.05
ODEX	III	49B 0026B	.065	3.24	4.87	6.05	99.72
ODEX	III	49B 0064B	.086	2.91	4.68	6.01	99.79
ODEX	III	49B 0074B	.059	2.83	5.35	5.96	99.30
ODEX	III	49B 0086B	.056	3.56	5.11	7.51	99.67
ODEX	III	49B 0096B	.056	3.87	4.45	5.94	99.69
ODEX	III	49B 0107B	.054	B 3.78	4.36	6.58	98.36
ODEX	III	050 0016	.062	3.24	5.14	5.89	99.64
ODEX	III	050 0045	.068	3.14	5.71	6.04	99.60
ODEX	III	050 0055	.078	2.95	5.20	6.13	99.67
ODEX	III	050 0103	.048	3.66	5.13	6.20	99.60
ODEX	III	050 0127	.028	4.00	5.69	7.70	98.66
ODEX	III	050 0177	.035	B 2.95	4.67	4.86	97.92
ODEX	III	050 0204	.019	1 3.89	5.16	5.21	99.04
ODEX	III	050 0503	.041	H 3.38	3.91	3.32	99.22
ODEX	III	051 0030	.079	3.52	5.88	6.48	99.43
ODEX	III	051 0070	.102	2.99	4.80	6.18	99.78
ODEX	III	051 0085	.075	3.17	5.02	6.57	99.57
ODEX	III	051 0098	.064	3.54	4.58	6.49	99.48
ODEX	III	051 0120	.039	3.90	4.24	5.80	99.58
ODEX	III	051 0151	.026	1 4.58	4.25	3.32	99.69
ODEX	III	051 0200	.023	2 4.98	4.34	4.22	98.88
ODEX	III	051 0250	.027	1 4.60	4.67	****	97.97
ODEX	III	051 0300	.028	3.92	4.89	5.27	99.77
ODEX	III	052 0061	.080	2.92	5.09	6.20	99.70
ODEX	III	052 0106	.042	3.52	5.66	6.07	99.15
ODEX	III	052 0125	.032	3.79	4.68	6.77	99.72
ODEX	III	052 0150	.020	3.88	5.33	6.59	98.76
ODEX	III	052 0200	.014	3.93	5.08	7.26	99.43
ODEX	III	052 0240	.018	3.60	5.07	6.92	99.38
ODEX	III	052 0300	.025	4.17	4.86	5.82	99.69
ODEX	III	053 0057B	.073	3.01	6.00	6.76	98.32
ODEX	III	053 0072B	.077	3.00	5.45	6.66	99.34
ODEX	III	053 0088B	.074	3.09	5.32	6.09	99.57
ODEX	III	053 0109B	.058	3.30	4.97	5.81	99.25
ODEX	III	053 0122B	.050	4.14	4.44	14.06	99.31
ODEX	III	053 0204B	.052	4.17	4.24	240.19	97.75
ODEX	III	053 0204B	.027	4.36	4.32	.00	97.65
ODEX	III	056 0032B	.059	3.03	5.25	6.36	99.72
ODEX	III	056 0042B	.054	2.85	5.57	5.93	99.60
ODEX	III	056 0055B	.069	2.91	5.28	6.54	99.38

CRUISE	STA	DPTH	VOL *	SLP1	SLP2	KNEE	% VAR	
ODEX	III	056	0106B	.038	3.15	5.04	5.50	99.63
ODEX	III	056	0109B	.049	3.50	5.27	6.71	98.78
ODEX	III	056	0135B	.030	3.96	4.52	9.46	99.52
ODEX	III	056	0193B	.021	3.53	4.51	6.84	99.07
ODEX	III	056	0193B	.030	2.67	4.65	5.67	98.45
ODEX	III	057	0036B	.050	2.91	5.22	5.47	99.45
ODEX	III	057	0049B	.049	3.02	5.82	6.40	98.87
ODEX	III	057	0059B	.055	2.80	5.74	6.35	99.46
ODEX	III	057	0077B	.044	2.73	6.35	6.34	99.01
ODEX	III	057	0099B	.035	3.89	5.81	7.21	98.13
ODEX	III	057	0110B	.033	3.66	5.75	6.22	99.60
ODEX	III	057	0138B	.019	3.24	4.95	6.55	99.15
ODEX	III	057	0201B	.019	3.35	5.05	6.50	98.96
ODEX	III	057	0201B	.018	3.61	4.08	6.74	98.86
ODEX	III	058	0020	.074	2.98	5.35	6.53	99.62
ODEX	III	058	0261	.012	4.71	4.79	91.52	99.03
ODEX	III	058	0300	.011	3.86	5.24	7.50	98.95
ODEX	III	059	0041B	.072	3.18	5.76	7.08	99.58
ODEX	III	059	0050B	.076	2.64	6.08	5.88	99.22
ODEX	III	059	0080B	.056	2.97	5.68	6.25	99.19
ODEX	III	059	0094B	.057	3.16	5.08	6.07	99.01
ODEX	III	059	0120B	.030	3.61	4.95	6.46	99.22
ODEX	III	059	0150B	.019	3.91	5.79	7.30	99.30
ODEX	III	059	0200B	.019	3.94	4.80	6.45	99.29
ODEX	III	059	0200B	.015	3.89	5.06	7.45	98.79
ODEX	III	060	0021	.068	3.00	4.75	6.53	99.63
ODEX	III	060	0052	.083	3.02	4.65	6.76	99.63
ODEX	III	060	0056	.084	2.95	5.27	6.53	99.62
ODEX	III	060	0094	.055	3.31	4.47	6.76	99.54
ODEX	III	060	0126	.031	3.76	4.88	8.66	98.47
ODEX	III	060	0149	.022	3.69	4.49	7.65	99.62
ODEX	III	060	0185	.015	3.56	4.91	7.19	99.00
ODEX	III	060	0309	.015	3.57	4.71	5.32	98.28
ODEX	III	061	0025	.054	3.01	5.89	6.62	99.11
ODEX	III	061	0048	.052	3.04	5.57	6.36	99.68
ODEX	III	061	0054	.058	3.07	5.30	6.26	99.50
ODEX	III	061	0098	.038	3.98	5.38	7.62	99.37
ODEX	III	061	0140	.017	3.84	5.28	5.81	99.47
ODEX	III	061	0175	.021	3.96	3.66	8.40	99.24
ODEX	III	61U	0056B	.069	3.04	5.03	5.77	99.50
ODEX	III	61U	0064B	.055	3.28	5.69	5.84	99.45
ODEX	III	61U	0079B	.061	3.25	5.43	6.56	99.45
ODEX	III	61U	0115B	.036	3.81	5.10	7.26	99.07
ODEX	III	61U	0155B	.022	3.63	3.69	.12	99.40
ODEX	III	61U	0199B	.021	3.28	4.34	4.28	99.54
ODEX	III	61U	0199B	.019	B 2.96	4.04	4.69	98.63
ODEX	III	062	0025	.049	2.82	5.75	6.11	99.60
ODEX	III	062	0053	.055	L 2.92	5.62	6.20	99.58
ODEX	III	062	0096	.041	3.82	4.83	5.88	99.77
ODEX	III	062	0120	.023	3.95	4.95	7.46	99.75

CRUISE	STA	DPTH	VOL *	SLP1	SLP2	KNEE	% VAR	
ODEX	III	062	0150	.016	3.96	4.57	5.58	99.81
ODEX	III	062	0200	.015	4.05	4.65	5.42	99.42
ODEX	III	062	0300	.014	3.84	4.54	5.16	99.55
ODEX	III	063	0025	.058	2.80	5.46	6.61	99.76
ODEX	III	063	0065	.069	2.98	5.08	6.53	99.77
ODEX	III	063	0080	.074	3.78	4.98	8.63	99.50
ODEX	III	063	0112	.037	4.09	4.70	9.15	99.74
ODEX	III	063	0150	.019	4.76	5.32	14.04	98.42
ODEX	III	063	0200	.012	4.22	4.54	15.95	98.78
ODEX	III	063	0250	.013	4.14	4.80	8.47	99.62
ODEX	III	064	0201	.016	3.32	4.83	5.58	99.52
ODEX	III	064	0301	.028	3.71	4.58	3.48	99.68
ODEX	III	065	0010	.062	2.85	5.18	6.58	99.46
ODEX	III	065	0030	.052	3.22	5.66	6.62	98.96
ODEX	III	065	0058	.062	3.23	5.18	6.39	99.78
ODEX	III	065	0080	.044	3.07	5.33	6.26	99.69
ODEX	III	065	0103	.037	3.64	4.75	6.65	99.65
ODEX	III	065	0125	.031	3.86	4.23	13.28	99.03
ODEX	III	065	0150	.018	3.79	4.24	10.85	99.38
ODEX	III	065	0220	.015	3.33	3.81	7.17	99.51
ODEX	III	065	0300	.009	3.81	4.26	10.81	98.21
ODEX	III	066	0026	.046	1 3.89	5.71	7.67	99.31
ODEX	III	066	0062	.059	2 3.81	6.19	6.80	98.11
ODEX	III	066	0104	.048	1 3.73	5.29	6.22	99.39
ODEX	III	066	0123	.025	4.89	5.50	12.36	98.42
ODEX	III	066	0151	.021	2 5.10	5.29	42.48	98.29
ODEX	III	066	0203	.011	4.62	4.97	10.41	99.09
ODEX	III	066	0300	.028	B 3.15	4.10	3.56	99.28
ODEX	III	067	0022	.064	2.77	5.24	5.79	99.77
ODEX	III	067	0044	.070	3.13	5.08	6.82	99.60
ODEX	III	067	0152	.021	3.21	4.07	13.02	96.73
ODEX	III	067	0253	.019	3.50	4.27	3.43	99.22
ODEX	III	067	0296	.018	1 4.11	4.40	24.62	98.50
ODEX	III	072	0029B	.056	3.11	5.65	5.57	99.82
ODEX	III	072	0045B	.046	3.48	5.67	6.83	99.54
ODEX	III	072	0084B	.044	4.55	5.25	10.39	99.56
ODEX	III	072	0109B	.042	4.12	5.14	7.66	99.83
ODEX	III	072	0148B	.026	3.63	5.13	5.86	99.41
ODEX	III	072	0148B	.048	3.22	5.57	4.45	99.04
ODEX	III	073	0030B	.060	3.67	5.44	6.89	99.70
ODEX	III	073	0045B	.062	4.10	5.65	6.69	99.66
ODEX	III	073	0080B	.059	3.48	4.91	6.79	99.62
ODEX	III	073	0105B	.041	3.93	5.50	7.12	99.48
ODEX	III	073	0115B	.038	4.30	4.99	9.22	99.35
ODEX	III	073	0140B	.022	4.17	5.50	8.01	98.63
ODEX	III	073	0200B	.038	H 4.02	5.07	6.22	99.60
ODEX	III	073	0200B	.032	H 4.80	4.52	8.38	99.67
ODEX	III	074	0020	.055	2.96	5.42	6.86	98.85
ODEX	III	074	0050	.079	2.95	4.55	6.56	99.58
ODEX	III	074	0055	.084	2.65	4.39	5.52	99.53

CRUISE	STA	DPTH	VOL *	SLP1	SLP2	KNEE	% VAR
ODEX	III	074 0093	.056	3.28	4.54	6.38	99.39
ODEX	III	074 0120	.040	3.48	3.93	10.02	99.23
ODEX	III	074 0165	.033	2.75	3.70	3.48	99.21
ODEX	III	074 0300	.017	B 3.08	3.25	1.51	97.70
ODEX	III	075 0012	.047	3.18	5.99	6.78	98.56
ODEX	III	075 0041	.040	3.67	5.63	5.70	99.84
ODEX	III	075 0058	.049	3.22	4.72	5.83	99.93
ODEX	III	075 0094	.033	4.00	5.43	6.02	99.85
ODEX	III	075 0125	.020	3 4.24	4.91	12.31	98.78
ODEX	III	075 0151	.019	4.09	4.76	5.49	99.67
ODEX	III	075 0203	.021	3.98	4.38	5.37	99.59
ODEX	III	075 0252	.014	4.20	4.57	6.41	99.51
ODEX	III	075 0300	.016	4.06	4.51	4.83	99.51
ODEX	III	076 0015	.041	3.60	5.52	6.43	99.76
ODEX	III	076 0041	.049	4.09	5.15	8.07	99.30
ODEX	III	076 0052	.041	3.43	6.43	6.64	99.02
ODEX	III	076 0065	.049	3.49	6.17	6.75	98.08
ODEX	III	076 0110	.035	4.00	6.52	7.64	98.92
ODEX	III	076 0145	.019	4.21	6.39	7.97	97.73
ODEX	III	076 0175	.020	3.73	4.71	7.15	99.30
ODEX	III	076 0200	.024	B 3.64	3.88	4.61	98.90
ODEX	III	076 0300	.017	B 4.21	3.66	3.59	99.15
ODEX	III	77B 0020	.064	3.11	4.87	6.01	99.81
ODEX	III	77B 0300	.023	2 3.73	4.64	6.89	99.44
ODEX	III	77B 0400	.023	H 4.09	3.97	.12	97.61
ODEX	III	77B 0500	.014	1 4.34	4.51	13.30	99.13
ODEX	III	77B 0700	.011	3.98	5.76	6.07	98.61
ODEX	III	77B 0800	.011	4.67	4.76	18.66	99.42
ODEX	III	77B 1000	.015	5.00	5.95	4.25	98.84
ODEX	III	77C 1200	.015	2 4.63	4.41	.55	96.83
ODEX	III	77C 1201	.012	2 3.99	5.57	8.07	98.15
ODEX	III	77C 1202	.022	H 3.26	4.12	5.30	99.58
ODEX	III	77C 1203	.018	H 3.76	4.43	6.36	99.24
ODEX	III	078 0020	.065	3.09	4.81	6.06	99.70
ODEX	III	078 0040	.061	2.89	5.18	6.16	99.20
ODEX	III	078 0070	.069	2.74	4.80	5.62	99.45
ODEX	III	078 0090	.063	3.35	4.88	6.92	99.13
ODEX	III	078 0122	.042	3.37	4.42	5.98	99.69
ODEX	III	078 0150	.027	3.66	5.16	6.75	98.81
ODEX	III	078 0200	.017	3.50	4.56	4.65	99.33
ODEX	III	078 0250	.018	1 4.19	3.91	10.88	99.46
ODEX	III	078 0300	.014	3.40	4.39	5.69	99.21
ODEX	III	079 0124	.035	4.58	4.55	.09	99.41
ODEX	III	079 0160	.034	3.99	5.61	4.56	99.68
ODEX	III	079 0225	.050	H 4.03	5.10	4.11	99.66
ODEX	III	079 0300	.018	5.30	5.00	2.54	99.21
ODEX	III	080 0016	.058	2.85	5.15	5.93	99.61
ODEX	III	080 0050	.063	2.68	5.13	6.00	99.46
ODEX	III	080 0063	.062	2.70	5.15	5.76	99.67
ODEX	III	080 0081	.049	2 3.63	5.32	5.82	99.80

CRUISE	STA	DPTH	VOL *	SLP1	SLP2	KNEE	% VAR
ODEX	III	080 0102	.043	3.58	5.01	6.54	99.46
ODEX	III	080 0150	.018 1	4.24	5.72	7.26	98.80
ODEX	III	080 0200	.019	3.75	5.92	5.83	99.36
ODEX	III	080 0252	.012	4.31	5.49	4.94	99.56
ODEX	III	080 0300	.014 2	4.94	5.17	15.34	98.79
ODEX	III	081 0030	.067	3.64	4.77	6.58	99.58
ODEX	III	081 0060	.061	3.05	4.94	5.62	99.40
ODEX	III	081 0065	.065	3.32	5.02	6.53	99.58
ODEX	III	081 0107	.046	3.38	4.55	5.89	99.41
ODEX	III	081 0150	.024	4.01	3.86	8.38	99.75
ODEX	III	081 0200	.024 B	3.60	3.87	1.42	98.59
ODEX	III	081 0250	.050 H	2.94	3.39	1.85	98.29
ODEX	III	081 0300	.031 H	3.75	3.25	6.10	99.77
ODEX	III	082 0036	.077	3.12	5.19	6.39	99.72
ODEX	III	082 0077	.070	2.83	4.70	4.71	99.73
ODEX	III	082 0093	.057	2.85	4.94	5.44	99.71
ODEX	III	082 0108	.049	3.59	4.53	5.49	99.64
ODEX	III	082 0120	.045	4.23	4.42	32.38	98.89
ODEX	III	082 0132	.036	4.19	4.87	5.19	98.88
ODEX	III	082 0161	.021	3.98	4.22	2.54	99.41
ODEX	III	082 0201	.017	3.45	3.77	.25	93.86
ODEX	III	082 0298	.020	3.90	4.57	5.71	99.89
ODEX	III	083 0046	.132 H	.75	8.22	5.63	98.44
ODEX	III	083 0064	.042	3.15	5.89	6.09	98.75
ODEX	III	083 0076	.054	3.17	5.74	6.21	98.71
ODEX	III	083 0300	.041 H	3.62	3.74	10.75	99.69
ODEX	III	084 0025	.040	2.82	5.72	5.78	99.62
ODEX	III	084 0080	.047	2.73	5.78	5.54	99.59
ODEX	III	084 0104	.032	3.87	5.70	5.52	99.54
ODEX	III	084 0130	.025	4.28	5.93	7.06	98.86
ODEX	III	085 0030	.051	2.98	5.53	6.00	99.64
ODEX	III	085 0065	.052	3.48	5.62	6.62	99.65
ODEX	III	085 0098B	.050	3.36	5.24	5.85	99.69
ODEX	III	085 0112B	.045	4.39	5.41	8.78	99.49
ODEX	III	085 0124B	.045	3.65	5.26	6.51	98.93
ODEX	III	086 0020	.066 1	3.59	5.06	7.50	99.46
ODEX	III	086 0070	.103 H	3.47	3.81	6.53	99.41
ODEX	III	086 0094	.070	3.69	4.67	5.79	99.48
ODEX	III	086 0150	.039	3.55	3.94	3.60	99.19
ODEX	III	086 0300	.029 H	3.67	3.54	15.73	99.53
ODEX	III	088 0025	.065	3.21	5.24	6.56	99.26
ODEX	III	088 0058	.066 1	3.34	4.53	6.58	99.54
ODEX	III	088 0075	.072	3.17	5.02	5.85	99.63
ODEX	III	088 0100	.074	3.48	4.32	5.36	99.66
ODEX	III	088 0200	.026 2	4.43	4.34	1.79	99.01
ODEX	III	088 0300	.021 2	4.33	5.25	8.79	98.84
ODEX	III	089 0020	.067	2.92	4.79	5.78	99.78
ODEX	III	089 0055	.086	2.86	4.99	6.16	99.55
ODEX	III	089 0070	.086	2.94	4.65	5.56	99.64
ODEX	III	089 0083	.050	3.69	4.07	5.75	99.50

CRUISE	STA	DPTH	VOL *	SLP1	SLP2	KNEE	% VAR		
ODEX	III	089	0300	.023	2	3.89	4.31	4.04	98.96
ODEX	III	090	0020	.059		3.06	5.49	6.49	99.24
ODEX	III	090	0042	.071		3.10	5.15	6.13	99.64
ODEX	III	090	0060	.081		2.70	4.65	5.55	99.62
ODEX	III	090	0092	.058		3.61	4.54	6.09	99.65
ODEX	III	090	0125	.037		4.24	4.98	7.44	98.38
ODEX	III	091	0056	.101	H	3.22	4.28	6.47	99.69
ODEX	III	091	0075	.087		2.87	4.48	5.67	99.64
ODEX	III	091	0095	.063		3.09	4.57	5.27	99.81
ODEX	III	091	0148	.031		3.09	4.66	5.36	99.62
ODEX	III	091	0300	.020	B	2.81	3.47	3.13	99.24
ODEX	III	092	0040	.066		3.05	4.68	5.92	97.78
ODEX	III	092	0057	.084		3.16	4.56	6.58	99.53
ODEX	III	092	0089	.067		3.54	4.26	6.06	99.74
ODEX	III	092	0200	.021	B	2.92	4.34	3.33	97.61
ODEX	III	093	0045B	.073		2.82	4.84	5.98	99.68
ODEX	III	093	0072B	.104	H	2.62	4.09	5.29	99.65
ODEX	III	093	0099B	.046		3.61	4.40	5.41	99.53
ODEX	III	093	0109B	.042		3.42	4.22	5.20	99.43
ODEX	III	093	0200B	.022	B	2.81	4.15	3.94	99.20
ODEX	III	094	0025	.066		2.82	5.16	6.26	99.68
ODEX	III	094	0048	.066		2.74	4.97	5.94	99.19
ODEX	III	094	0055	.085		2.75	5.12	6.45	99.58
ODEX	III	094	0095	.042		3.76	5.15	7.48	99.14
ODEX	III	094	0150	.020		3.23	4.70	5.72	99.25
ODEX	III	094	0300	.012	B	3.55	4.68	6.13	98.59
ODEX	III	095	0020	.073		2.76	5.36	6.42	99.30
ODEX	III	095	0075	.067		2.68	5.51	6.17	99.07
ODEX	III	095	0120	.039	B	3.83	4.49	9.87	98.44
ODEX	III	095	0160	.019		3.34	4.77	5.09	99.38
ODEX	III	095	0300	.017		2.80	4.48	5.54	99.14
ODEX	III	096	0042	.086	1	3.23	4.61	7.91	99.34
ODEX	III	096	0052	.098	1	3.46	4.32	9.02	98.90
ODEX	III	096	0088	.066		3.59	4.14	5.48	99.61
ODEX	III	096	0136	.055	H	2.89	4.05	3.75	99.18
ODEX	III	096	0200	.025		3.24	4.46	4.71	99.28
ODEX	III	098	0020	.085		3.12	4.28	7.13	99.66
ODEX	III	098	0057	.117	H	2.74	4.43	6.18	99.49
ODEX	III	098	0087	.077	1	3.88	4.58	9.62	98.93
ODEX	III	098	0152	.030	1	4.53	3.74	5.80	99.52
ODEX	III	098	0301	.029	H	4.02	3.35	4.04	99.50
ODEX	III	100	0020	.069		2.66	5.33	6.12	99.06
ODEX	III	100	0063	.086		2.87	4.80	6.43	99.49
ODEX	III	100	0080	.068		3.28	5.08	6.35	99.53
ODEX	III	100	0102	.039		3.55	4.82	5.99	99.33
ODEX	III	100	0150	.024		3.76	4.73	7.72	99.14
ODEX	III	100	0300	.017		3.52	4.68	5.71	99.28
ODEX	III	101	0050	.061		2.97	4.94	6.01	99.37
ODEX	III	101	0068	.064		3.08	5.11	5.60	99.64
ODEX	III	101	0089	.052		3.42	4.92	5.36	99.66

CRUISE	STA	DPTH	VOL	*	SLP1	SLP2	KNEE	% VAR
ODEX	III	101 0110	.028		3.95	5.30	7.02	99.26
ODEX	III	101 0150	.018		3.32	5.43	6.25	98.23
ODEX	III	101 0300	.012		3.66	5.18	7.13	98.19
ODEX	III	102 0046	.040		3.29	5.92	5.31	99.74
ODEX	III	102 0055	.046		3.12	6.41	5.78	99.56
ODEX	III	102 0087	.033		3.77	6.31	5.88	98.95
ODEX	III	102 0110	.028		3.63	4.90	6.79	99.20
ODEX	III	102 0140	.021		3.56	4.53	6.33	99.64
ODEX	III	102 0300	.012		3.10	4.99	5.74	98.87
ODEX	III	103 0040	.037		3.49	7.01	5.68	99.70
ODEX	III	103 0063	.052		2.92	7.19	5.63	99.36
ODEX	III	103 0083	.035		3.57	6.07	5.17	99.27
ODEX	III	103 0121	.025		3.18	5.35	4.14	99.48
ODEX	III	103 0300	.012		4.28	5.37	5.58	99.54
ODEX	III	104 0030B	.048		3.69	6.48	5.76	99.83
ODEX	III	104 0078B	.038		3.58	5.88	5.14	99.61
ODEX	III	104 0109B	.033		3.81	5.14	5.31	99.75
ODEX	III	104 0142B	.028		3.76	4.56	6.95	99.15
ODEX	III	104 0200B	.025		3.69	4.00	4.37	99.39
ODEX	III	105 0020	.077		2.86	4.93	6.00	99.79
ODEX	III	105 0056	.067		3.19	4.83	6.56	99.60
ODEX	III	105 0068	.091		2.56	4.80	5.71	99.47
ODEX	III	105 0090	.054		3.20	5.63	6.43	98.80
ODEX	III	105 0300	.012	B	2.74	4.84	5.35	99.05
ODEX	III	106 0030	.102	H	3.09	3.46	11.21	99.23
ODEX	III	106 0088	.050		3.21	5.17	6.03	99.24
ODEX	III	106 0125	.023		3.97	5.51	7.14	99.14
ODEX	III	107 0008	.081	1	3.14	4.78	7.25	99.41
ODEX	III	107 0071	.074		2.68	5.23	5.80	99.56
ODEX	III	107 0095	.085		3.33	4.21	5.42	99.87
ODEX	III	107 0125	.044		3.69	4.45	6.63	99.52
ODEX	III	107 0200	.030		4.24	3.81	3.72	99.27
ODEX	III	108 0046	.080		3.37	5.09	7.31	99.56
ODEX	III	108 0057	.100	1	3.25	4.95	6.86	99.42
ODEX	III	108 0125	.063	H	3.24	4.84	5.93	99.73
ODEX	III	108 0302	.028	H	3.21	3.73	4.37	99.77
ODEX	III	109 0020	.078		3.18	4.86	6.82	99.68
ODEX	III	109 0063	.099		3.46	4.98	7.33	99.51
ODEX	III	109 0140	.046	H	3.42	4.15	8.56	98.99
ODEX	III	109 0200	.023		3.28	4.10	5.20	99.08
ODEX	III	110 0062	.055		2.92	4.80	5.79	99.31
ODEX	III	110 0078	.084		2.66	4.43	5.80	99.50
ODEX	III	110 0107	.053		3.63	5.22	7.13	99.20
ODEX	III	110 0160	.022	B	3.31	4.23	3.78	99.43
ODEX	III	111 0020	.069		2.98	5.01	6.62	99.44
ODEX	III	111 0051	.057		2.96	5.38	5.97	99.60
ODEX	III	111 0074	.070		2.98	5.17	6.06	99.58
ODEX	III	111 0101	.059		3.02	5.49	5.82	99.46
ODEX	III	111 0140	.030		3.69	5.21	6.34	98.98
ODEX	III	112 0040	.063		3.19	4.94	6.00	99.74

CRUISE	STA	DPTH	VOL *	SLP1	SLP2	KNEE	% VAR
ODEX	III	112 0074	.074	2.87	5.47	6.16	99.75
ODEX	III	112 0090	.056	3.46	5.54	6.33	99.37
ODEX	III	112 0105	.048	3.29	4.93	5.62	99.36
ODEX	III	112 0125	.032	4.00	4.59	8.15	99.23
ODEX	III	112 0150	.024	3.60	4.86	4.30	99.50
ODEX	III	113 0030	.055	3.07	4.65	5.98	99.44
ODEX	III	113 0061	.060	3.14	5.41	6.33	99.76
ODEX	III	113 0078	.054	2.96	5.66	6.36	99.36
ODEX	III	113 0096	.045	3.60	5.10	5.99	99.73
ODEX	III	113 0125	.033	3.64	5.21	5.79	98.98
ODEX	III	113 0150	.019	3.58	5.63	6.55	99.10
ODEX	III	114 0021	.059	3.10	5.29	6.76	99.54
ODEX	III	114 0072	.075	2.88	5.76	6.39	98.87
ODEX	III	114 0103	.063	3.41	4.76	5.88	99.62
ODEX	III	115 0008	.055	3.30	5.11	6.96	99.61
ODEX	III	115 0068	.090	3.00	5.42	6.43	99.45
ODEX	III	115 0094	.069	3.50	4.37	8.13	99.55
ODEX	III	115 0200	.044	H 3.01	3.86	5.41	99.54
ODEX	III	116 0041	.065	3.14	5.21	6.52	99.74
ODEX	III	116 0061	.106	H 3.25	4.87	7.15	99.53
ODEX	III	116 0124	.030	3.48	4.50	5.76	99.24
ODEX	III	116 0172	.023	3.19	4.19	4.43	99.15
ODEX	III	117 0020	.062	2.91	5.64	6.36	98.81
ODEX	III	117 0040	.065	3.00	5.21	6.39	99.33
ODEX	III	117 0054	.085	2.71	5.37	6.16	99.49
ODEX	III	117 0089	.055	3.21	5.26	5.85	99.55
ODEX	III	117 0125	.020	3.70	5.22	6.16	99.24
ODEX	III	117 0175	.016	3.32	5.72	5.34	98.11
ODEX	III	118 0027	.077	2.75	5.05	6.21	99.40
ODEX	III	118 0050	.075	2.70	5.42	6.28	99.49
ODEX	III	118 0064	.084	2.61	5.26	5.98	99.33
ODEX	III	118 0094	.046	4.10	5.10	9.32	99.35
ODEX	III	119 0026	.067	2.92	5.42	6.93	99.45
ODEX	III	119 0057	.098	1 3.03	4.77	6.53	99.58
ODEX	III	119 0076	.070	3.01	5.16	6.32	99.51
ODEX	III	119 0099	.064	3.58	4.89	7.05	99.20
ODEX	III	119 0129	.050	H 3.32	3.63	4.86	99.64
ODEX	III	119 0174	.022	3.81	4.07	10.02	99.19
ODEX	III	120 0025	.067	2.87	5.19	6.34	99.46
ODEX	III	120 0052	.061	1 3.39	5.06	7.72	99.19
ODEX	III	120 0065	.079	2.73	5.00	5.93	99.26
ODEX	III	120 0092	.060	3.24	4.46	5.41	99.71
ODEX	III	120 0130	.024	3.82	4.99	7.59	98.91
ODEX	III	120 0175	.017	3.87	5.12	5.75	99.62
ODEX	III	120 0201	.016	3.79	5.51	6.31	97.80
ODEX	III	121 0055	.080	2.98	4.94	6.63	99.58
ODEX	III	121 0075	.060	2.78	4.54	5.31	99.81
ODEX	III	121 0100	.036	3.76	4.65	8.77	99.41
ODEX	III	121 0125	.025	3.23	5.68	5.79	97.44
ODEX	III	121 0150	.019	3.73	4.79	5.83	99.17

CRUISE	STA	DPTH	VOL *	SLP1	SLP2	KNEE	% VAR	
ODEX	III	121	0185	.019	3.42	4.83	5.67	99.71
ODEX	III	121	0200	.017	3.58	5.12	5.67	99.09
ODEX	III	123	0035	.059	2.61	5.50	5.50	99.39
ODEX	III	123	0072	.068	2.69	5.62	5.80	98.90
ODEX	III	123	0087	.061	3.21	5.73	6.09	98.88
ODEX	III	123	0155	.012	3.92	4.80	7.58	98.18
ODEX	III	124	0200	.083	H 3.43	4.60	6.02	99.89
ODEX	III	125	0021	.074	2.64	5.39	5.98	99.49
ODEX	III	125	0067	.083	2.75	5.32	6.14	99.58
ODEX	III	125	0096	.051	3.45	5.02	6.22	99.70
ODEX	III	125	0125	.027	3.65	4.67	6.03	99.39
ODEX	III	125	0301	.014	B 2.85	4.22	4.65	99.05
ODEX	III	126	0066	.058	3.04	5.59	6.70	99.35
ODEX	III	127	0075	.063	2.82	5.99	6.19	99.17
ODEX	III	127	0090	.054	3.58	5.34	6.86	99.56
ODEX	III	127	0200	.021	3.87	3.74	17.19	99.61
ODEX	III	128	0020	.054	2.97	5.86	6.32	99.40
ODEX	III	128	0062	.054	2.96	5.70	6.02	99.19
ODEX	III	128	0072	.051	2.96	5.94	5.92	99.65
ODEX	III	128	0095	.046	3.49	5.38	6.08	99.22
ODEX	III	128	0120	.026	3.61	5.38	5.78	99.10
ODEX	III	128	0200	.016	3.63	5.73	5.89	99.07
ODEX	III	129	0015	.056	2.97	5.51	6.42	99.45
ODEX	III	129	0044	.055	3.10	5.32	6.24	99.67
ODEX	III	129	0055	.054	L 2.86	6.15	6.26	96.52
ODEX	III	129	0080	.055	2.71	6.11	6.23	98.50
ODEX	III	129	0100	.040	3.23	5.42	5.67	99.54
ODEX	III	129	0130	.019	4.10	5.90	6.56	99.27
ODEX	III	129	0180	.015	3.33	5.99	6.06	99.15
ODEX	III	130	0030	.054	3.04	5.31	6.42	99.50
ODEX	III	130	0070	.055	2.94	4.87	5.81	99.41
ODEX	III	130	0095	.033	3.63	5.49	6.63	99.21
ODEX	III	130	0125	.019	3.58	5.50	6.11	99.27
ODEX	III	130	0200	.011	4.17	5.32	8.07	98.97
ODEX	III	131	0020	.053	3.38	6.40	7.13	97.42
ODEX	III	131	0087	.038	3.79	4.87	6.96	99.82
ODEX	III	131	0100	.027	4.41	4.86	8.14	99.72
ODEX	III	131	0125	.020	4.19	4.77	7.79	99.50
ODEX	III	131	0200	.016	1 4.47	5.14	9.74	99.21
ODEX	III	132	0017	.063	2 3.51	5.53	7.42	99.22
ODEX	III	132	0040	.076	2.90	5.06	6.68	99.32
ODEX	III	132	0099	.045	3.64	4.61	7.17	99.55
ODEX	III	132	0125	.023	3.74	4.37	5.76	99.27
ODEX	III	132	0296	.015	3.53	4.27	5.60	99.28
ODEX	III	133	0020	.055	3.07	4.66	5.95	99.69
ODEX	III	133	0040	.053	3.14	5.48	6.43	99.54
ODEX	III	133	0060	.080	3.35	4.81	6.70	99.57
ODEX	III	133	0106	.046	3.85	4.50	6.93	99.68
ODEX	III	133	0125	.030	4.20	4.47	9.55	99.26
ODEX	III	133	0175	.027	4.10	4.19	.96	99.57

CRUISE	STA	DPTH	VOL	*	SLP1	SLP2	KNEE	% VAR
ODEX	III	133 0200	.031	1	3.97	3.74	4.65	99.64
ODEX	III	133 0300	.019		4.04	4.00	67.28	99.26
ODEX	III	134 0010	.107	H	2.78	5.32	6.32	99.84
ODEX	III	134 0035	.073		2.88	5.37	6.25	99.49
ODEX	III	134 0110	.044		4.22	4.94	7.23	98.87
ODEX	III	134 0191	.019		3.93	4.23	1.75	99.03
ODEX	III	134 0400	.029	H	6.35	4.97	3.61	99.08
ODEX	III	134 0600	.011	1	4.61	5.36	7.45	98.76
ODEX	III	134 0800	.008	1	4.17	6.83	6.24	98.97
ODEX	III	134 1000	.008		4.04	5.78	5.69	99.67
ODEX	III	135 0020	.067	1	4.00	5.38	8.86	99.02
ODEX	III	135 0060	.088	1	3.42	5.04	7.51	99.36
ODEX	III	135 0105	.060		3.97	4.67	7.88	99.79
ODEX	III	135 0200	.019		4.18	4.38	6.01	99.55
ODEX	III	136 0041	.074	1	3.61	4.82	7.32	99.24
ODEX	III	136 0072	.094		3.03	5.23	6.65	99.41
ODEX	III	136 0093	.077		3.35	5.24	6.50	99.18
ODEX	III	136 0141	.037		3.48	4.86	5.61	99.42
ODEX	III	136 0300	.019	1	3.92	5.01	7.31	97.74
ODEX	III	137 0015	.062		3.29	5.66	7.11	99.45
ODEX	III	137 0050	.061		3.18	5.38	6.36	99.58
ODEX	III	137 0115	.076		2.82	4.87	6.08	99.53
ODEX	III	137 0150	.030	1	4.32	5.00	8.37	99.26
ODEX	III	137 0300	.016	1	3.93	5.98	7.62	98.25
ODEX	III	138 0025	.058	1	3.14	5.25	6.48	99.75
ODEX	III	138 0060	.075	1	2.75	5.36	6.07	99.59
ODEX	III	138 0100	.051		3.46	4.75	5.89	99.58
ODEX	III	138 0125	.027		3.90	4.94	7.61	99.23
ODEX	III	138 0200	.013		3.41	4.80	4.61	99.16
ODEX	III	139 0030	.060		2.67	5.32	6.44	99.14
ODEX	III	139 0067	.082		2.75	5.13	6.39	99.66
ODEX	III	139 0100	.045		3.90	5.55	7.33	99.27
ODEX	III	139 0125	.024	2	3.80	5.63	7.07	99.35
ODEX	III	139 0200	.012		3.50	4.94	5.96	99.84
ODEX	III	140 0030	.057	1	3.59	5.65	7.91	99.13
ODEX	III	140 0062	.053		3.23	5.49	5.63	99.80
ODEX	III	140 0098	.042		3.79	4.65	6.38	99.58
ODEX	III	140 0125	.021		4.13	5.77	7.52	98.91
ODEX	III	141 0025	.057	2	3.89	5.55	8.67	98.99
ODEX	III	141 0071	.068	1	3.52	5.48	6.85	99.44
ODEX	III	142 0051B	.062	2	3.63	5.25	8.76	98.75
ODEX	III	142 0078B	.065	1	3.72	4.62	8.36	99.40
ODEX	III	142 0099B	.044	1	4.05	5.02	7.58	99.32
ODEX	III	143 0020	.055	3	3.80	5.73	7.44	99.47
ODEX	III	143 0054	.051		2.93	5.54	5.93	99.64
ODEX	III	143 0078	.058		3.31	6.51	6.60	98.69
ODEX	III	143 0099	.051		4.08	4.51	10.16	99.68
ODEX	III	143 0175	.013		4.18	4.89	6.03	99.31
ODEX	III	143 0188	.014		4.16	5.65	6.63	99.74
ODEX	III	144 0025	.058		3.26	6.16	7.08	98.95

CRUISE	STA	DPTH	VOL *	SLP1	SLP2	KNEE	% VAR
ODEX	III	144 0051	.051	3.05	6.27	6.29	98.55
ODEX	III	144 0075	.059	3.09	5.52	6.08	99.58
ODEX	III	144 0125	.020	4.32	5.11	8.02	99.42
ODEX	III	145 0025	.066	3.18	5.36	7.01	99.56
ODEX	III	145 0059	.084	3.15	5.47	6.57	99.57
ODEX	III	145 0079	.062	3.10	5.22	6.24	99.08
ODEX	III	145 0108	.051	3.67	4.83	7.17	99.46
ODEX	III	145 0127	.037	4.26	4.31	****	98.68
ODEX	III	145 0201	.018	4.52	4.40	.31	98.93
ODEX	III	146 0015	.077	2 3.89	5.25	9.98	98.39
ODEX	III	146 0051	.083	1 3.26	4.94	7.05	99.48
ODEX	III	146 0104	.055	3.94	4.47	10.71	99.53
ODEX	III	146 0148	.052	H 3.35	3.96	4.50	99.87
ODEX	III	147 0020	.078	1 3.77	4.84	9.07	98.50
ODEX	III	147 0041	.107	1 3.10	4.92	6.92	99.34
ODEX	III	147 0105	.063	1 4.10	4.62	9.28	99.60
ODEX	III	147 0301	.021	1 4.50	5.24	9.60	98.36
ODEX	III	148 0048	.080	1 3.57	4.81	8.33	99.40
ODEX	III	148 0095	.051	1 3.82	4.85	7.19	99.63
ODEX	III	148 0161	.034	2 4.64	4.16	3.46	99.69
ODEX	III	149 0015	.062	3.03	5.24	6.40	99.50
ODEX	III	149 0056	.055	2.94	6.46	6.47	97.52
ODEX	III	149 0072	.048	2.86	5.70	6.17	99.41
ODEX	III	149 0105	.042	3.42	5.64	6.67	99.23
ODEX	III	150 0030	.058	3.00	4.99	5.72	99.87
ODEX	III	150 0060	.056	2.95	5.27	5.64	99.72
ODEX	III	150 0076	.056	3.66	5.69	6.71	99.00
ODEX	III	150 0107	.038	3.60	5.00	5.49	99.61
ODEX	III	150 0125	.029	3.86	5.02	6.51	99.65
ODEX	III	150 0200	.014	3.96	4.85	7.18	99.04
ODEX	III	151 0020	.053	3.04	5.32	5.93	99.49
ODEX	III	151 0053	.065	3.21	5.63	6.82	99.60
ODEX	III	151 0076	.052	3.27	5.32	6.42	99.20
ODEX	III	151 0100	.039	3.59	5.03	5.90	99.57
ODEX	III	151 0125	.026	4.14	5.68	7.68	97.11
ODEX	III	151 0200	.013	2 4.70	4.95	41.53	98.09
ODEX	III	152 0050	.072	3.51	5.01	7.83	99.69
ODEX	III	152 0112	.034	4.03	5.43	7.79	99.04
ODEX	III	152 0150	.022	3.98	4.48	9.95	99.47
ODEX	III	153 0022	.064	4.05	5.17	10.23	98.75
ODEX	III	153 0055	.069	3.28	5.58	6.64	99.27
ODEX	III	153 0102	.036	1 4.25	4.82	8.67	99.66
ODEX	III	153 0301	.018	3.72	4.40	6.46	98.80
ODEX	III	154 0060B	.071	3.06	4.76	6.20	99.72
ODEX	III	154 0080B	.073	3.19	4.91	6.67	99.68
ODEX	III	154 0109B	.040	3.90	5.01	8.30	99.48
ODEX	III	154 0197B	.029	1 4.25	4.53	34.89	97.32
ODEX	III	155 0043	.055	1 3.35	5.41	6.92	99.33
ODEX	III	155 0056	.056	3.05	5.85	6.26	99.13
ODEX	III	155 0088	.044	3.62	4.80	5.60	99.74

CRUISE	STA	DPTH	VOL *	SLP1	SLP2	KNEE	% VAR
ODEX	III	156 0040	.052	2.87	5.30	6.15	99.30
ODEX	III	156 0064	.066	2.73	5.71	6.10	99.47
ODEX	III	156 0106	.042	3.46	5.19	6.40	99.59
ODEX	III	156 0126	.021	4.01	6.03	7.78	97.83
ODEX	III	156 0200	.010	3.65	5.90	6.02	99.20
ODEX	III	157 0040	.060	2.72	5.27	6.58	99.41
ODEX	III	157 0072	.073	2.62	5.60	6.57	98.90
ODEX	III	157 0104	.048	3.20	5.09	6.44	99.34
ODEX	III	157 0125	.025	3.46	5.32	5.51	99.14
ODEX	III	157 0200	.012	3.60	4.94	5.77	99.46
ODEX	III	158 0020	.068	3.00	4.76	6.45	99.79
ODEX	III	158 0075	.086	2.99	5.59	7.27	99.10
ODEX	III	158 0151	.032	3.69	4.12	9.89	99.03
ODEX	III	158 0297	.020	2.89	4.15	6.25	98.96
ODEX	III	159 0055	.067	2.73	4.80	6.73	99.48
ODEX	III	159 0073	.082	2.61	4.92	6.44	99.14
ODEX	III	159 0105	.048	3.63	4.58	8.05	99.56
ODEX	III	159 0300	.019	3.33	4.39	6.61	98.80
ODEX	III	160 0015	.051	2.88	5.48	6.48	99.27
ODEX	III	160 0076	.044	3.56	5.57	7.45	99.18
ODEX	III	160 0106	.024	3.88	4.63	9.72	99.24
ODEX	III	160 0201	.023	3.41	4.09	6.24	99.03
ODEX	III	163 0015	.057	2.93	5.32	5.91	99.55
ODEX	III	163 0050	.052	2.64	5.36	5.93	99.26
ODEX	III	163 0062	.047	2.45	5.18	5.44	99.31
ODEX	III	163 0108	.034	3.69	5.08	5.90	99.59
ODEX	III	163 0150	.019	3.79	5.21	6.91	99.18
ODEX	III	164 0062	.046	2.95	5.58	6.66	99.48
ODEX	III	164 0095	.064	3.18	5.28	6.62	99.53
ODEX	III	164 0117	.046	3.68	4.29	6.41	99.71
ODEX	III	164 0148	.032	3.30	4.14	4.85	99.54
ODEX	III	165 0043B	.077	3.38	4.96	7.47	99.43
ODEX	III	165 0074B	.071	2.91	5.35	6.20	99.34
ODEX	III	165 0106B	.037	3.67	5.61	6.56	99.18
ODEX	III	166 0043B	.055	3.60	5.67	7.46	99.50
ODEX	III	166 0055B	.057	3.47	5.63	7.07	99.58
ODEX	III	166 0078B	.060	3.34	5.78	6.73	98.56
ODEX	III	166 0095B	.052	3.50	5.56	6.83	98.49
ODEX	III	166 0112B	.045	3.90	4.39	6.75	99.34
ODEX	III	166 0151B	.022	3.76	4.57	4.80	99.76
ODEX	III	166 0188B	.030	3.77	4.41	8.50	99.24
ODEX	III	166 0188B	.022	3.82	5.17	7.35	99.30
ODEX	III	169 0019B	.089	5.48	4.29	3.29	98.82
ODEX	III	175 0020	.130	3.01	5.02	6.39	99.68
ODEX	III	175 0070	.172	4.70	5.68	12.09	98.17
ODEX	III	175 0106	.024	4.99	5.21	22.83	99.17
ODEX	III	175 0251	.014	4.68	5.32	8.17	99.16
ODEX	III	175 0275	.019	4.08	6.94	7.41	99.57
ODEX	III	175 0350	.015	4.55	5.01	10.37	99.57
ODEX	III	175 0600	.017	4.74	6.04	8.81	99.25

CRUISE	STA	DPTH	VOL *	SLP1	SLP2	KNEE	% VAR	
ODEX	III	175	1000	.023	H 5.28	5.52	61.19	98.07
ODEX	III	176	0010	.192	3.60	5.56	8.28	98.81
ODEX	III	176	0026	.270	2.90	5.15	6.79	99.65
ODEX	III	176	0036	.181	2.96	5.25	6.27	99.88
ODEX	III	176	0042	.120	3.09	5.41	6.05	99.41
ODEX	III	176	0075	.028	3.48	5.19	5.55	99.36
ODEX	III	176	0106	.024	3.63	5.11	6.86	99.23
ODEX	III	176	0300	.012	3.55	4.96	4.80	98.95
ODEX	III	177	0020	.204	3.22	5.12	6.64	99.86
ODEX	III	177	0040	.188	3.16	5.34	6.45	99.71
ODEX	III	177	0060	.078	3.49	4.84	6.68	99.45
ODEX	III	177	0080	.035	3.93	4.87	6.76	99.73
ODEX	III	177	0101	.027	3.47	4.65	5.43	99.76
ODEX	III	178	0022	.174	3.54	5.04	7.28	99.73
ODEX	III	178	0041	.132	4.00	4.92	8.71	99.64
ODEX	III	178	0062	.061	4.49	5.07	14.96	98.13
ODEX	III	178	0080	.046	1 4.21	4.92	10.24	98.94
ODEX	III	178	0120	.036	1 4.06	4.29	14.66	99.41
ODEX	III	179	0020	.048	L 3.39	5.10	6.18	99.52
ODEX	III	179	0075	.052	H 3.25	4.53	5.57	99.27
ODEX	III	181	0010	.219	H 4.43	5.54	12.75	96.97
ODEX	III	181	0025	.122	1 4.02	6.67	7.35	99.04
ODEX	III	181	0113	.038	3.99	5.09	5.27	99.79
ODEX	III	181	0196	.077	3.55	5.94	6.37	99.51

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